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INTERCOM

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"A man for all seasons"



Joab Thomas, Penn State's 15th president, smiles as he accepts a gift of appreciation from the University Faculty Senate. This photo was taken April 25, during the president's last Senate meeting.

Photo: Greg Grieco

Penn State's 15th president looks back over his tenure as he prepares to say farewell

Back in the 1950s, a Harvard undergraduate from Russellville, Ala., answered a biology instructor's advertisement for a lab technician and soon found himself doing research into longevity with *Drosophila melanogaster*, common fruit flies often used in genetic studies.

He'd answered the ad primarily because he needed money to help pay his way through college. But as he worked with the flies, the student realized he was doing something more important than that. He was learning the precise and complex lab protocols that good research demands. He was getting a sense of what research is really all about. He was working with a first-rate instructor with a special concern for teaching undergraduates.

And as the student ran crowding experiments at various stages of insect development, and controlled feeding experiments, he saw that the smaller, more active flies were living longer than the larger, less active flies. And he began to wonder — could these findings apply to human beings, too?

The student was **Joab Thomas**, who is now approaching the end of his five-year stint as Penn State's 15th president. Even though more than 40 years have gone by since he worked on that research project, Dr. Thomas has not forgotten what he did on the project, and what, over the years, it has come to teach him.

"One of the things that we discovered — and I was the first one to point this out, because I was the one handling the flies — was that with increased larval crowding, the flies that emerged not only were smaller, but they

See "Farewell" on pages 8 and 9

Former governor deeds papers to University Libraries

The personal papers and administrative documents of former Pennsylvania Gov. **Robert P. Casey** are part of an extensive historic collection that will be housed at Penn State's Pattee Library on the University Park Campus.

Former Gov. Casey announced Aug. 11 that he will donate the papers, including speeches, administrative correspondence, photos and newspaper clippings to the University.

"Penn State was the logical choice for the papers since it houses such a vast resource of information about the state," former Gov. Casey said. "It is imperative that the historical information of Pennsylvania and its people be documented and preserved. Archives are an essential and critical element in maintaining our history, analyzing the past and positioning ourselves for the future."

Penn State President **Joab Thomas** said he encouraged the former governor to donate his papers and was "delighted" they would be housed at the University.

The collection of more than 75 boxes of material records Gov. Casey's terms in office from 1987-1995, although the official records from his

See "Libraries" on page 3

Campuses form new partnership

The University's Beaver, McKeesport and New Kensington campuses have entered into a new alliance — the Greater Pittsburgh Commonwealth Educational System Region for Continuing Education — to better serve the continuing education needs of western Pennsylvania and to consolidate administrative costs.

"Penn State's Continuing Education offerings, from credit courses in accounting and education to non-credit classes in real estate and engineering, have been administratively reorganized at the three campuses to reduce overlapping offerings and to ensure quality programming," John Marshall, director of field services for Continuing and Distance Education, said in an Aug. 7 announcement of the move. In addition, course offerings will be re-evaluated to be sure they meet specific educational needs of the region.

Mr. Marshall also announced that

See "Alliance" on page 4

DIVERSITY

International Council names chairperson

The University's International Council will be chaired by Norman Freed, professor of physics and associate dean of the Eberly College of Science, during 1995-96. Dr. Freed has represented the Eberly College on the council since 1991-92 and served as the council's vice chair in 1994-95. The International Council has senior representation from all strategic planning units of the University and acts in an advisory capacity to the president and to the Office of International Programs.

In his new role, Dr. Freed plans to continue working toward the five strategic goals of the council, which include: providing education abroad experiences for 20 percent of each undergraduate graduating class (the current figure is approximately 8 percent); increasing international activities of faculty and graduate students; internationalizing the curriculum; increasing recognition of international activities within the promotion and tenure process; and enhancing the climate for international students, faculty and staff. In his capacity as associate dean of the Eberly College, Dr. Freed designed an undergraduate science exchange program within Great Britain to enable Penn State to tap into ERASMUS—a successful program in Europe in which students routinely exchange places within European universities.

The Eberly College of Science boasts a new international portfolio, thanks in part to Dr. Freed,



"I believe that a university education must prepare students to enter the real world, and that world is becoming more internationally oriented at a breathtaking pace."

Norman Freed
chairman
Penn State's International Council

who helped develop the British Science Exchange Program in which undergraduates spend the year in any of seven British universities. Dr. Freed said the college is working on similar relationships with other universities to expose not only undergraduates, but faculty and graduate students, to an international experience.

Dr. Freed is convinced that education must be internationalized if it is to lead to opportunities in the years ahead, and his own international experience makes him a prime advocate for internationalization. He has been a CNRS Fellow at the University of Grenoble, France; a Fellow of the Institute for Theoretical Physics at the University of Lund, Sweden; a Ford Foundation Fellow at the Niels Bohr Institute, University of Copenhagen; a Fellow at the Research Institute for Theoretical

Physics, University of Helsinki; a CNRS Fellow at the Center for Nuclear Studies of the French Atomic Energy Commission at Saclay; and a Research Professor at the University of Paris at Orsay. In addition, he has lectured extensively at universities in Europe, Japan and India.

"When an employee is selecting employees from an increasing international pool of talent, who is more likely to get the job: the European who speaks several languages and has developed ... cultural sensitivity ... or the American who has never left the U.S. and speaks only English?" he said.

"I believe that a university education must prepare students to enter the real world, and that world is becoming more internationally oriented at a breathtaking pace."

Center for Women marks 10th anniversary

The Center for Women Studies is celebrating its 10th anniversary with a series of events this fall.

■ **Lee Ann Banaszak**, associate professor of political science, will speak in honor of the 75th anniversary of women's suffrage at 8 p.m. Thursday, Aug. 24, in the HUB Gallery Lounge on the University Park Campus.

■ **"One Woman, One Vote,"** a historical documentary showing highlights of the suffrage movement beginning with the first women's rights convention in 1848, will be shown at 7 p.m. Wednesday, Aug. 30, in the HUB Assembly Room on the University Park Campus.

■ The Center for Women Students' 10th anniversary open house/reception will be held from 4 to 6 p.m. Wednesday, Sept. 13, in 120/102 Boucke Building on the University Park Campus.

■ Historian and humorist **Jane Curry** will present "Just Say Know: Educating Females for the 21st Century" at 8 p.m. Monday, Sept. 20, in Schwab Auditorium on the University Park Campus. Presented by the Center for Women Students with the support of the Commission for Women, this performance satire set in a mythical Midwest institution of higher learning will be followed by a reception in the HUB Gallery Lounge.

■ **Patricia Johnstone**, assistant director of the Center for Women Students, will facilitate discussion on the Clothesline Project documentary, "Bearing Witness to Violence Against Women," at 7:30 p.m. Tuesday, Sept. 26, in the HUB Assembly Room on the University Park Campus.

■ **Sabrina C. Chapman**, director of the Center for Women Students, will facilitate discussion on "PSU Herstory: Past, Present and Future" from noon to 1 p.m. Thursday, Sept. 28, in the CWS Resource Room, 120 Boucke Building on the University Park Campus.

For more information, contact the Center for Women Studies, 102 Boucke Building, at (814) 863-2027.

BOOK SHELF

Gordon W. Blood, professor and head of the Department of Communication Disorders, is author of **THE POWER Game: Dealing With Stuttering**.

The book is designed for use by adolescents who stutter, as well as by speech-language pathologists who work with them. **THE POWER Game** uses a game-theory approach to make it easier for adolescents to talk about their attitudes and feelings, which is a major part of stuttering therapy with that age group. The game also teaches problem-solving skills and coping techniques.

The book explains the theoretical rationale for the game and the goals of

the game, then describes in detail how to play it; it also includes reproducible game cards and other handouts. In addition, it includes a chapter on the role of counseling in dealing with stuttering.

The book is published by Communication Skill Builders of Tucson, Ariz.

Shirley Marchalonis, professor of English and women's studies at the Penn State Berks Campus, is the author of **College Girls: A Century in Fiction**, published by Rutgers University Press, 1995.

Using novels, short stories and some juvenile fiction from 1865 to 1940 — all of it specifically about college "girls" —

Dr. Marchalonis examines the notion that females were mentally and physically incapable of learning and the belief that educating women would destroy society.

Since the opening of Vassar College in 1865, women's colleges have tried to create a special space and new role models that would allow women to exist for a short time in idyllic conditions. Dr. Marchalonis guides readers through the history of women's education and how ideas about women and education developed. She also aids readers in understanding the significance these ideas have in relation to women's history.

Dr. Marchalonis is also author of *The Worlds of Lucy Larcom, 1824-1893* and is editor of *Patrons and Protegés: Gender, Friendship and Writing in Nineteenth-Century America* (Rutgers University Press, 1988).

As a primer for anyone hoping to help preserve one of North America's great natural resources, **Richard Yahner's**

Eastern Deciduous Forest puts the forest's splendors within a reader's reach.

Published by the University of Minnesota Press, the book offers a general introduction to the ecology and wildlife conservation issues of the eastern deciduous forest that stretches from the East Coast to the Mississippi River, from southern Canada to northern Florida.

Dr. Yahner, professor of wildlife conservation in the School of Forest Resources and chair of the graduate Ecology Program, explores the forest's physiology, soil and vegetation types and integrates basic biological principles into his account of the ecological consequences of society's actions.

Tracing the history of conservation of the forest, he discusses relevant issues such as the loss of biodiversity, forest fragmentation, Neotropical migratory bird patterns, acid deposition, ozone depletion and global climatic change. The book is volume four in the *Wildlife Habitats Series*.

President-elect reports salary, makes \$100,000 gift

Penn State's new president, **Graham Spanier**, has requested and received permission from the Board of Trustees to publicly report his salary, delivering on a promise he made to reporters following his hiring. At the same time, Dr. Spanier announced he will return a portion of his salary to the University through a charitable contribution.

Dr. Spanier will be paid \$250,000 a year. Dr. Spanier's contract is for a five-year period that will end Aug. 31, in the year 2000.

Dr. Spanier also announced that he and his wife, **Sandra**, have joined the Mount Nittany Society, the group of University donors who have pledged or contributed a minimum of \$100,000. The Spaniers have designated their gift to be used in support of the University's academic programs.

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"Although I believe in the principle of confidentiality of salaries, there seems to be intense interest in the president's salary in particular. In the spirit of openness that I hope will characterize my administration, I felt it was appropriate to reveal my salary, something that I feel is a personal decision," Dr. Spanier said.

Dr. Spanier added, "Penn Staters have an impressive record of giving to the University, and I am pleased to follow in this tradition, hoping my gift will stimulate even more alumni, colleagues, and friends of the University to support the University's programs."

Penn State is one of the largest universities in the nation with approximately 70,000 students and approximately 16,000 faculty and staff at its 22 campuses and 67 extension offices around the state. The University's 1995-96 budget is \$1.6 billion. A member of the Big 10, Penn State has more than 336,000 living alumni and raises more than \$80 million per year in private funds.

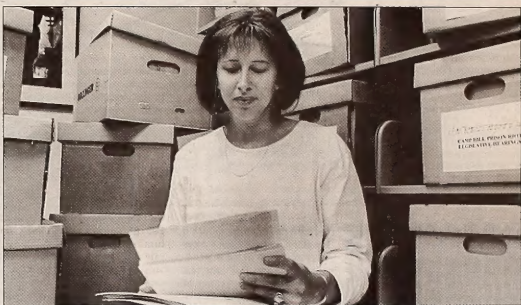
ARL layoffs tied to slowdown in funding

The Applied Research Laboratory is facing some changes in research priority for the next fiscal year, including a loss of federal funding in several research areas and an increase in overall overhead expenses.

Based on its current projections, the laboratory will need to reduce its work force by up to 24 faculty and staff, including 11 non-tenured faculty.

The affected employees have been given as much advance notice as possible, with some faculty receiving as much as 12 months' notice and staff as much as three months' notice. Some of these layoffs may be averted if new funding is developed in the next few months. ARL will continue to expand in other areas of research to compensate for these losses.

ARL employs approximately 600 full-time faculty and staff and is supported solely by non-University funding, mainly U.S. Department of Defense funding.



Diana Shenk, head of the Historical Collections and Labor Archives for Penn State, looks over the contents of some of the 76 boxes that are part of former Gov. Robert P. Casey's donation to the University archives.

Photo: Greg Grieco

Libraries

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OBITUARIES

Pearl L. Gurbal, dining hall worker, Housing and Food Services, from Nov. 24, 1969, until her retirement Oct. 17, 1981; died June 13 at the age of 75.

Peter P. Karapin, assistant professor of engineering at the Penn State York Campus, died July 14 at the age of 76. Hired Sept. 1, 1965, he retired from the University on June 30, 1981.

Wayne F. Murz, associate extension agent, College of Agricultural Sciences, died July 13. He served at Penn State from Sept. 8, 1991, until his death at the age of 53.

Edmund H. Umberger, professor of mathematics in the Eberly College of Science, died June 23. Hired Sept. 1, 1939, he served the University until his retirement July 1, 1978. He was 82.

Woodrow W. Wilson, assistant professor of engineering, Penn State Worthington Scranton Campus, from Sept. 1, 1962, until his retirement March 1, 1981; died July 8 at the age of 76.

gubernatorial tenure mainly rest in the State Archives in Harrisburg.

"The difference in the collections is that a majority of these papers are what we consider personal records. There are also duplicate papers of official documents found in the State Archives," **Diana Shenk**, head of the Historical Collections and Labor Archives for Penn State, said. "As the land-grant institution of Pennsylvania, it's important that we hold the records of the state's public officials. One of our main goals is to document the social, political and industrial development of Pennsylvania."

Ms. Shenk said the Casey papers are an excellent source for anyone seeking information on 20th-century public officials and their public activities. Access to the documents is controlled by an agreement which reflects the same terms and provisions as are contained in an agreement between the governor's office and the State Historical and Museum Commission.

The former governor, now chairman of the Campaign for the American Family and the Fund for the American Family — two organizations advocating pro-life and pro-family policy initiatives — said the decision to deed his papers to Penn State was based on the University's reputation as a repository for gubernatorial archives.

In addition to the Casey papers, Penn State is also home to the archives of former Pennsylvania governors **William Warren Scranton**, who served from 1963 to 1967; **Edward Martin**, governor from 1943-47; **Gifford Pinchot**, 1931-35; **James Beaver**, 1887-91; and **Andrew Curtin**, 1861-67. The University also houses the historical records of the United Mine Workers of America and the United Steelworkers, which document in great detail the heritage, turmoil and election activities of two of the nation's strongest labor unions. In addition, the University Libraries is the site of the archives of the Pennsylvania Federation of Labor, the Pennsylvania AFL-CIO, Labor's Non-Partisan League and the Pennsylvania Industrial Union Council.

"The papers will be easily accessible to scholars and citizens and our proximity to other resources of information, like the State Archives in Harrisburg and the Library of Congress, make this an ideal match," President **Thomas** said.

Gov. Casey, who served two terms as the leader of the Commonwealth, was elected to his second term in 1991 by a margin of more than a million votes — the largest gubernatorial landslide victory in statewide politics.

Alliance

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David A. English, who has served as director of Continuing Education at the Shenango Campus since 1988, has been named director of the regional program.

Currently the University offers a total of approximately 100 Continuing Education courses for credit and more than 300 non-credit courses at the Beaver, McKeesport and New Kensington campuses. Students in those programs include regular full-time baccalaureate students who are accelerating their program or tailoring their schedules to fit other responsibilities such as work or family schedules, non-degree students who are building their skills and area employees seeking certification or training in a given field.

The new regional program will oversee all of Penn State's non-credit Continuing Education offerings in the region as well as all new credit classes offered off-campus.

"For now, existing for-credit Continuing Education classes offered at the three campuses will continue to be offered in those locations, and for the time being, programs offered at the Monroeville Center will also not be a part of the regional program," Mr. Marshall said.

In addition to the regional director, staff for the program will consist of three representatives and three staff assistants, one of whom will be located at each campus. The regional director and representatives are new positions designed specifically to meet the needs of the regional operation.

In order to implement the new regional operation, all Continuing Education positions at the three campuses were eliminated June 30.

The regional operation is managed by a board of directors consisting of the three campus executive officers — Dennis

Travis, Beaver Campus; JoAnne Burley, McKeesport Campus; and Catherine Gannon, New Kensington Campus — and Mr. Marshall.

The board will report to Robert E. Dunham, senior vice president for the Commonwealth Educational System. Mr. English, the program director, will report directly to the board.

A native of New Kensington, Mr. English served as a Continuing Education area representative at the Penn State Gontz Campus from 1985 to 1988 and as a program assistant from 1984 to 1985.

Among his accomplishments there, he developed new client relationships in northeastern Philadelphia and strengthened existing relationships with hospital clients and others.

New Western Campus Continuing Education Alliance



New Kensington Campus

PROMOTIONS

Staff

Marilee R. Mulvey, coordinator, Computer and Information Systems, Penn State Scranton Campus.

Lee Ann H. Pannebaker, staff assistant VI, Office of the President.

Martin M. Park, financial counselor, The Hershey Medical Center.

Lore-Anne Peters, staff assistant VI, College of Health and Human Development.

Joseph P. Pillot, computer center specialist, Office of the President.

Suzette C. Poremba, alumni relations coordinator, Research and Graduate School.

Lawrence C. Ragan, director, Instruction Design and Development, Continuing Education.

Jean L. Rhine, staff assistant VI, The Hershey Medical Center.

Kelly J. Rhoades, staff assistant VI, College of Earth and Mineral Sciences.

Joanna Riggins, staff assistant IV, Office of Human Resources.

Yvonne M. Riley, senior applications/programmer analyst, Office of the President.

Robin M. Robinson, advising/counseling assistant, College of the Liberal Arts.

Suzanne Rowin, staff assistant VI, Division of Development and University Relations.

Eric S. Sagmuller, research support technologist III, College of Earth and Mineral Sciences.

Susan M. Sernick, staff assistant VI, The Hershey Medical Center.

Mary A. Shaw, senior research technologist, College of Earth and Mineral Sciences.

David P. Shields, director, Student Affairs, Penn State Altoona Campus.

Rose I. Showalter, staff assistant VI, Office of the President.

Michael B. Smith, computer center specialist, Office of the President.

Rodney W. Smith, senior applications programmer/analyst, Office of the President.

Jodie W. Stabinski, assistant nursing manager at The Hershey Medical Center.

Marc A. Startoni, supervisor, HMC Payroll and Accounting Operations, at The Hershey Medical Center.

Eileen B. Stephenson, staff assistant VI, College of Engineering.

Donna J. Stone, computer operator, Computer and Information Systems, Office of Administrative Systems.



A regular column provided by Intercollegiate Athletics

Nike deal

Penn State athletics has forged a comprehensive agreement with the athletic shoe and apparel giant Nike Corp. that will benefit a majority of the school's 800 student-athletes.

The agreement, which began last fall and extends for three years, calls for Nike to provide shoes, uniform items and apparel to Penn State student-athletes in men's and women's sports. Twenty-six of the 29 Penn State sports teams presently are affected by the Nike agreement.

Former student-athletes honored

At the recent Big Ten Conference Centennial dinner in Chicago, former Penn State student-athletes Suzie McConnell Serio (women's basketball) and Jesse Arnette (football, men's basketball) were presented with special centennial awards by Commissioner Jim Delany.

Probably the most decorated women's basketball player in Lady Lion history, Ms. McConnell Serio owns two Olympic medals—a gold earned as a member of the U.S.

team at the Seoul games and a bronze from the 1992 games in Barcelona. A first team Kodak All-America choice in 1988, she also won the Frances Pomeroy Naismith Hall of Fame Award following her senior season. She played on teams that won 97 of 130 games and appeared in two NCAA Eastern regional. She established an NCAA career record for assists, and established nine different Penn State career marks.

Now the girls' basketball coach at Oakland, Pa., Catholic High School, Ms. McConnell Serio and her husband, Pete, live in Pittsburgh with their two children.

Jesse Arnette is the Nittany Lions' only first-team All-America basketball player and was a member of the last Penn State team to reach the NCAA Final Four in 1955. Mr. Arnette remains the Nittany Lions' all-time leader in scoring and rebounding. He also played end on the football team, winning All-East and honorable mention All-America honors. A political science major, Mr. Arnette was Penn State's first African-American student body president.

Now the senior partner with a San Francisco-based law firm, he currently is vice president of the University's Board of Trustees and a winner of numerous professional and public service awards, including the Distinguished American Award from the National Football Foundation and Hall of Fame in 1992.

Basketball opener

Coach Bruce Parkhill's Penn State cagers will open their 1995-96 season on Saturday, Nov. 25, against Morgan State at Recreation Building.

Rene Portland's Lady Lions, defending Big Ten Conference champions and winner of the conference tournament last March, open on the road against Rutgers on Nov. 25.

CD-ROM college sports series

Penn State, plus five other college football powerhouses, will be featured as part of an interactive CD-ROM college sports series to be produced in conjunction with ABC Sports.

Capital Cities/ABC, Inc. and Stella Interactive, Inc., a California-based sports multimedia publisher, announced a partnership that will initially produce six college football CD-ROMs that highlight the history, traditions and great moments of Penn State, University of Michigan, Ohio State, Notre Dame, Florida State and the University of Southwestern California.

ABC sports commentator Keith Jackson will host the tour through each team's archives. The Penn State CD-ROM should be available by September.

Season opener

The Nittany Lions football team kicks off its season opener against Texas Tech in Beaver Stadium, bringing with it a 17-game winning streak — the nation's longest.

Appointments

College of Medicine names assistant dean for program

Judith S. Bond, has been named assistant dean of the M.D./Ph.D. program in the College of Medicine.

Dr. Bond has directed the M.D./Ph.D. program since October 1993. The program provides an opportunity for students interested in medical science to plan and undertake training in both clinical medicine and research in a basic science discipline. The College of Medicine's program is one of 50 in the United States.

Dr. Bond, who is chair of the Department of Biochemistry and Molecular Biology, came to the medical center in 1992 from Virginia Polytechnic Institute and State University where she served as professor and head of biochemistry and nutrition, and the Medical College of Virginia, Virginia Commonwealth University, where she was affiliate professor. She held both positions since 1988. Dr. Bond previously held several positions in biochemistry at the Medical College of Virginia, beginning in 1968.

Her research experience includes positions as visiting scientist in Adelaide, S.A., Australia, and at Strangeways Research Laboratory in Cambridge, England. She served a postdoctoral fellowship in physiology at Vanderbilt University's College of Medicine.

She holds a Ph.D. and an M.S. in physiology and biochemistry from Rutgers University and a B.A. in science from Bennington College, Vermont. Dr. Bond's most significant work began in 1981 with the discovery of the enzyme meprin, in kidneys, located on the cell surface. She is the recipient of a National Institutes of Health (NIH) MERIT Award for this work.

Dr. Bond has served as a member and chair of the NIH Biochemistry Study Section and as a member of the NCI Cancer Research Manpower Review Committee, the Fogarty International Research Review Committee, the NIH National Diabetes Advisory Board and the Board of Trustees of the Science Museum of Virginia. She currently is a council member of the Association of Medical and Graduate Departments of Biochemistry, on the Nominating Committee of the American Society of Biochemistry and Molecular Biology, a member of the Department of Veterans Affairs Merit Review Committee for Basic Sciences and an executive editor of *Archives of Biochemistry and Biophysics*.

In addition, she is a member of the American Diabetes Association, American Society for Biochemistry and Molecular Biology, American Physiological Society, Biochemical Society, The Protein Society, American Chemical Society, American Society for Microbiology, Association for Women in Science, Society for Experimental Biology and Medicine, American Association for the Advancement of Science, American Association of University Professors and Sigma Xi.

Shanango Campus appoints director of University Relations

Steve Hessmann has been named director of University Relations at Shanango Campus. In this position, Mr. Hessmann will be responsible for campus development efforts, public relations and information and alumni relations.

Mr. Hessmann most recently held the position

of Northeast regional coordinator for the Pennsylvania Service Corps, an AmeriCorps program. He has also served as director of development for the American Red Cross in Allentown. Before that, he completed eight years of experience with the Boy Scouts of America in Greensburg, Allentown and Manassas, Va., as senior district executive.

Mr. Hessmann completed his undergraduate work in business management at Saint Francis College in Loretto, Pa. He has been an active member in Rotary International, the National Society of Fund Raising Executives and has been a National Public Radio volunteer.

Eberly College of Science taps director for new program

Mildred Rodriguez has been named director of the new post-baccalaureate Premedical Certificate Program in the Eberly College of Science.

The program is not remedial or for science majors who need to improve their academic record, but is to help people prepare for entry into a health-profession program in as little as 15 months.

"To be eligible for admission," Dr. Rodriguez said, "a person must have completed a bachelor's degree at an accredited college or university in a



Mildred Rodriguez

major other than life sciences, have earned a grade-point average of B or better, done some volunteer work or worked in a health-care setting, and demonstrated success in taking standardized tests such as the SAT college entrance exam or the GRE graduate school entrance exam."

Dr. Rodriguez completed her undergraduate degree in biology at the University of Puerto Rico. She earned a master's degree in biomedical sciences at Western Michigan University, then worked in the Boston area as a research assistant. She later earned a doctorate in zoology at the University of Rhode Island.

She received a Ford Foundation Fellowship for postdoctoral research training at Penn State, where she worked on male reproductive physiology in the Department of Biochemistry and Molecular Biology. During this time, Dr. Rodriguez taught evening courses in human physiology through the Department of Continuing and Distance Education.

McKeesport Campus welcomes director of enrollment management

Cathy M. Schwab has joined the Penn State McKeesport Campus staff as director of enrollment management. She held a similar position for eight years at the University of Maryland, where she oversaw admissions and developed marketing and recruitment strategies for the university's colleges of Agriculture and Life Sciences.

During her tenure, the academic quality and volume of students improved significantly while enrollment in the College of Agriculture doubled, and in the College of Life Sciences increased by 35 percent.

Ms. Schwab has served as assistant director of admissions at Clemson University; director of educational services for the *Anderson Independent-Mail*, Anderson, S.C.; college counselor at Ohio State; and county extension agent, Berkshire County, Maine.

She holds a B.S. from the University of Massachusetts, M.S. from Ohio State, and has completed all but dissertation toward a Ph.D. in the Department of Education, Policy, Planning and Administration at the University of Maryland.

Health and Human Development appoints publications coordinator

Karen L. Wargo has been named publications coordinator for the College of Health and Human Development.

She will be responsible for developing promotional publications and other marketing efforts for the college.

For the past year she was a publications specialist in the Department of Publications; in that role she managed and produced recruitment and development publications for various University units. Before that, she spent four years as an associate editor at The Ohio State University, where she developed newsletters, promotional publications and related materials for the extension program in the College of Human Ecology.

She also has experience as an account coordinator for the advertising agency of Hameroff/Milenthal/Spence Inc., and as a free-lance writer and editor. She has a bachelor's degree in journalism and a master's degree in communications, both from Ohio State.

Assistant dean's role expanded

Howard E. Wray III has been named associate dean for undergraduate education. Before this appointment, he served as assistant dean for undergraduate education.

Since joining Penn State in 1989, Dean Wray has been responsible for supervising the Academic Assistance Programs (AAP) including the Comprehensive Studies Program/Act 101, Educational Opportunity Program, University Learning Resource Centers, College Assistance Migrant Program and all of the TRIO programs for low-income, first-generation college students and students from groups underrepresented in higher education. He has also been responsible for the Educational Opportunity Centers, Regional Upward Bound Math and Science Center, Student Support Services, Talent Search and Upward Bound. In addition, he serves as director for the Ronald E. McNair Post-Baccalaureate Achievement Program, the most recent TRIO initiative.

Under Dean Wray's leadership, AAP's annual external funding for underrepresented groups has dramatically increased.

In his new position, Dean Wray will be taking on additional responsibilities, including overseeing advising services for a wider range of students. Initially, he will implement the recommendations of a CQI team of the Central Enrollment Management Group aimed at the retention of more than 4,000 students who voluntarily leave Penn State each year while in good academic standing. Later, he will extend these approaches to a wider population of students.

CQI

CONTINUOUS
 QUALITY
 IMPROVEMENT

The Chronicle of CQI

A new publication, *The Chronicle of CQI*, edited by Robert A. Cornesky, has been promoted as providing "the latest information on continuous quality improvement techniques, ideas and experiences to help resolve problems in your classroom, department or institution."

Bob Cornesky has been a professor and dean at several major public and private universities and is the founding editor of the *TQM in Higher Education* newsletter. He is author of *The Quality Professor*, *Total Quality Improvement Guide for Institutions of Higher Education*, *Using Deming to Improve Quality in Colleges and Universities*, and *Implementing Total Quality Management in Higher Education*. For more information about the *Chronicle of CQI*, call 1-800-388-8682.

Graduate students invited into consortium

The Graduate Student Consortium for Quality in Higher Education (GSCQHE) is a national network of graduate students with research interests in managing quality improvement in colleges and universities.

The consortium provides a forum for graduate students to share research information and find out what others in the field are doing. Last year about 25 different research institutions were represented in the consortium.

Activities include an e-mail discussion group and professional networking opportunities through mailings. To join the consortium, send a message (Subscribe GSCQHE Yourfirst-name Yourlastname) to CQI-RL@umich.edu or write to GSCQHE, 6084 Fleming Admin., University of Michigan, Ann Arbor, Mich. 48109.

If you would like more information about CQI, please contact Louise Sandmeyer, executive director, or Carol Everett, assistant director of the CQI Center, 814-863-8721.

News in Brief

Research on falls and trips in older individuals

The Center for Locomotion Studies is interested in studying older people (over 70 years) who do not exercise and have noticed a weakness in their lower extremities, and older people who are active and believe their lower extremities are strong.

Researchers will assess leg strength and study how this affects walking and the ability to avoid an obstacle placed in the pathway. Research will be conducted now through October and will involve one to two visits.

Exclusions: History of a stroke or other neurological problems; certain medications; severe musculoskeletal problems; and total joint replacement. If you use an assistive device (cane, walker, etc.), you must be able to walk without it for approximately 40 feet. For more information, contact Mary Becker at 865-1972.

Scanticon blood drive

To help offset lagging student blood inventories, The Penn State Scanticon, in cooperation with the American Red Cross, will conduct a blood drive open to the community, from 11 a.m.-5 p.m. Friday, Aug. 18, in the President's Hall. While walk-ins are welcome, appointments are preferred and can be made through Ginny Grimmer, at 863-5000.

The entire blood donation process takes a little more than an hour, and this includes a brief health check and something to eat. A person may safely donate every 56 days; to confirm donor eligibility, call the regional Red Cross at 1-800-GIVE-LIFE.

Weight Watchers AT WORK has special rate

For the person who wants to get a jump-start on the Weight Watchers AT WORK program, Weight Watchers is offering a special rate for a 12-week Program: Enroll in the Aug. 30 to Nov. 15 series and receive 12 weeks of Weight Watchers for the price of 10 (regular 10-week program begins Sept. 13). Program meets on Wednesdays from 12-1 p.m. in the Paul Robe

son Cultural Center Auditorium. For information on cost or to register, contact Jan Hawbaker at 865-3085 or JQH13@psu.edu.

Traffic restrictions

Effective Monday, Aug. 21, Pollock Road between Old Main and McAllister Building will resume normal traffic restrictions. Traffic will be restricted to buses, bikes and University service trucks from 7:45 a.m. to 4:45 p.m., Monday through Friday.

Adult learners

Several workshops and programs for adult learners are planned for August. If you are interested in attending or would like further information, contact the Center for Adult Learner Services at 863-3887 or stop by 323 Boucke.

The workshops include:

- Orientation for new adult learners enrolling fall semester 1995, from 6 to 8 p.m. Monday, Aug. 21, in 111 Boucke.
- An overview of University services, a panel of currently enrolled adult learners, time for interaction with other students and small group discussions focusing on the adjustment to college will be featured.

Degree and non-degree students are welcome to attend, as well as family members and friends. Child care and refreshments will be provided.

- "Macintosh Workshop—Beginners" will be held 9-11 a.m. or 6-8 p.m. Friday, Aug. 18, and 2-4 p.m. Saturday, Aug. 19, in 217 Boucke. The program will focus on:

- reducing anxiety of computer usage;
- an introduction to word processing; and
- learning how to type and edit papers.

Reservations will be accepted on a first-come, first-serve basis. This class is available to currently enrolled students and those beginning new in fall.

- "Macintosh Workshop—Intermediate" will be held Saturday, Aug. 19, from 9-11 a.m. and Sunday, Aug. 20, 9-11 a.m. or 6-8 p.m., in 217 Boucke. The program will focus on:

- an introduction to graphics software;
- combining graphics and word processing; and

— expanding knowledge of word processing.

Reservations will be accepted on a first-come, first-serve basis. This class is available to currently enrolled students and those beginning new in fall.

Science Writers meeting

The Penn State Chapter of the National Association of Science Writers will hold its first meeting of the 1995-96 school year at noon Wednesday, Aug. 30, in the conference room in 114 Kern Building.

The chapter will meet to select speakers for its luncheon roundtable series.

The chapter meets for lunch and discussion on the last Wednesday of each month during the academic year. This brown bag series is open to anyone interested in science communication. For more information, contact Scott Turner, 865-9481.

WWII exhibit

An exhibit titled "The Veterans Return to Campus, 1944-50," on display since June in the University Archives/Penn State Room and main lobby of Pattee Library, has been extended and will now run through Sept. 3.

The exhibit commemorates the vast changes that occurred on campus as the University dealt with waves of new students who were veterans of World War II.

AIDS quilting bees

Panel-making for The NAMES Project AIDS Memorial Quilt will be held at 1 p.m. every Sunday until Sept. 17 in the basement of the Red Cross office, 1211/2 E. Beaver Ave. in State College.

The panel-making sessions are a resource for anyone wishing to create a handmade memorial to a loved one who has died of AIDS, or for volunteers who want to help. No sewing experience is necessary. For more information, contact Tiffany Boyd at 234-4050.

Sections of The AIDS Memorial Quilt will again be brought to the University Park Campus. On Sept. 22, 23 and 24, the quilt will be on exhibit at Recreation Building. The event is sponsored by Centre CARES.

Faculty/Staff Alert

Recycling fee drops

Thanks to higher than projected revenues from the sale of recyclables, the Centre County Solid Waste Authority has reduced the fee paid by the University for recycling.

"The cost reduction from \$29 a ton to \$10 a ton illustrates the economic benefits of recycling since the refuse tipping fee remains at

\$72 a ton," said Phillip Melnick, manager, Building Trades and Solid Waste Disposal, Office of Physical Plant.

According to Mr. Melnick, the price difference may even grow larger if recycling markets remain strong in the future.

"It appears that the recycling mentality and infrastructure have developed to the point that demand is catching up with sup-

ply, thus creating stronger than expected markets," he said.

In another effort to reduce costs, the Office of Physical Plant, in cooperation with Housing and Foods personnel, conducted a waste stream analysis on the University Park Campus. The analysis revealed that 32 percent of the refuse in the waste stream could have been recycled. (See June 15 *Intercom*, page 7, for details).

World Wide Web is bed of University activity

It's out there, and it's growing larger everyday. With intriguing names like Metaverse and cyberspace, the Internet is ever-evolving, open to all who have the means to get them there and owned by no one.

At Penn State locations across the state, students, faculty and staff are navigating this vast interconnection of computers to collaborate on research, delve into intellectual electronic discussions, go to sites in lands they'll probably never physically visit and simply check in on the weird and interesting.

For "newbies" — or newcomers — it's a confusing place that lurks just beyond the computer screen. Layer upon layer of sites from "The Canadian Young Inventors' Fair" to the "CIA World Factbook" and places in between pull users into the unknown and, in some cases, leave them wondering how to return to the safety of their desktops.

But for those practiced in the art of "surfing" — or exploring the "Net," it's a land of opportunity, a place where information on everything from Estonian-English translations to pop culture topics is at your immediate disposal.

"People don't really understand the significance of what's happening," Steven A. Schrader, a University microcomputer systems consultant, said. "It's easier than ever before to get information, instant information. Everything is more accessible and anyone can be a publisher."

Including Penn State.

If you haven't already tapped into the University's "home page" on the World Wide Web, you can get there by using any one of several "browsers" — software that allows you to navigate the Web. Two of the most popular browsers that are available from the Center for Academic Computing (CAC) are Mosaic and Netscape. By typing in the Web site address (called a Uniform Resource Locator, or URL) <http://www.psu.edu>, you'll find yourself staring at a picture of Old Main. And here's a secret: Just one point and click of a mouse button on that image will allow you to hear part of the Nittany Lion's fight song — provided you have the right audio software on your computer. In addition, buttons at the top of your screen allow you to navigate through alumni services, an online phone directory, colleges and departments, faculty and staff listings, sports, culture and recreation, to name a few.

Mr. Schrader is largely responsible for building the University's home page, which links into the welcome pages of other units and areas at Penn State. For instance, using Penn State's home page as a jumping off point, a user could easily get to the welcome pages of the departments of Public Information and Entomology or the Web sites of the colleges of Engineering, Earth and Mineral Sciences, the Liberal Arts, and any number of Penn State locations (see Web addresses in the accompanying box).

Here is a small sampling of the multitude of interesting and informative Web sites posted by Penn State and its faculty and staff:

FIND YOUR PLACE IN CYBERSPACE

Penn State's Home Page — Find your way around the Web by using this site as a jumping off point; offers tons of information on the University and its happenings, at URL <http://www.psu.edu>.

The Department of Public Information — A welcome page that offers up-to-date news about Penn State, a list of past press releases, a University profile, calendar of events and facts and figures, plus an introduction to President-elect Graham Spanier. In the future, a mere click on the new president's picture will prompt a voice welcome from him. At URL <http://www.pubinfo.oud.psu.edu/>

The College of Earth and Mineral Sciences — At URL <http://www.ems.psu.edu>, this well-done site is packed with information about undergraduate and graduate programs, a faculty/staff directory (complete with mugshots), educational resources and a list of additional online sites around the world related to the earth sciences.

The Palmer Museum of Art — A must-visit site at <http://cac.psu.edu/~md120/palmer/>. Winner of the "Best Research" in the arts & humanities at Penn State, this page is a visual treat for those with the computer memory to handle the array of pictures. Links take visitors inside the Palmer to tour the American painting collection and the Palmer catalog. Also offers close-up look at lion paws that grace the front, and several views of the sculpture garden.

By glancing at the extensive list of links, everyone who's anyone has a Web site describing programs, introducing faculty and providing access to valuable research in specific disciplines.

In some instances, these units have set up their own servers to handle the amount of traffic that might log into their Web sites. In other cases, CAC — through its Sun Work Station Clusters — acts as the server. This method requires the group or person wishing to create a Web site to obtain an access account from CAC.

"We grant accounts for welcome pages to a variety of people and groups, including departments that want to post courses or descriptions, or to researchers who wish to publish their findings," Mr. Schrader said. Like James H. Marden, assistant professor of biology. His research (see page 15 of this issue) on insect flight, complete with videos of insects skimming across ponds, can be found by typing in the URL <http://cac.psu.edu/~jhm10>.

In fact, there are currently between 25 and 30 welcome pages from departments, colleges, organizations, programs, faculty and other groups that connect to Penn State's home page, according to Mr. Schrader, who said that number is increasing weekly.

One area that CAC has steered away from is "personal pages" or "vanity pages" as they are often referred to by "Net users." These Web pages, all about the authors, are in many cases electronic resumes complete with photos or other graphics. Mr. Schrader, who believes personal pages help put a face to the myriad names and numbers, would like to identify people on the Web, has his own page where you can not only learn that he likes volleyball, but you can also view a picture of his son, Nathaniel, at URL <http://cac.psu.edu/~steve/index.html>.

"Personal pages are one place where you are absolutely free to do whatever your personality suggests," Mr. Schrader said. This is also the page that is likely to get you into the most trouble, but it has been a way for people to humanize the Web. It keeps Penn State from being a faceless entity."

For anyone who has been hesitant about venturing into the Web world, CAC offers assistance in a variety of ways. Those with no experience cruising the Internet may want to contact CAC's Help Desk the old-fashioned way — by telephone at (814) 863-1035 to learn how to get started and how to obtain the necessary browsing software.

The more experienced or adventurous individuals may want to download the software themselves. You can do this by launching Copher and finding the Microcomputer Order Center's folder under "Information Servers at Penn State." Once there, go to the "access" folder and find the platform you are using (Mac or IBM). Inside this folder is the browser software you will need to surf the "Net and the WWW."

In addition, the Help Desk also has a welcome page at http://www.psu.edu/pubs/CAC_Guide/consulting.html that can steer you in the right direction for assistance, or simply fire off an E-mail to helpdesk@psu.edu.

"If you are not on the Web, you are probably at a disadvantage," Mr. Schrader said. "There is just so much out there that is available at your fingertips. Here at Penn State, even policies are updated first electronically, then on paper."

— Lisa M. Rosellini

25-year Awards



Observing 25 years of service at the University are (from left) Stephen J. Fonash, distinguished professor of engineering science and Jiri Tichy, head, Department of Acoustics, both in the College of Engineering; Lucas Stock, truck driver, Kathryn E. Smith, manager, Maintenance and Planning Services, and William Stoffer, janitorial workgroup leader (Utility), all in the Office of Physical Plant; and G. Allen Prophet, research assistant, Department of Surgery, at The Hershey Medical Center.

Farewell

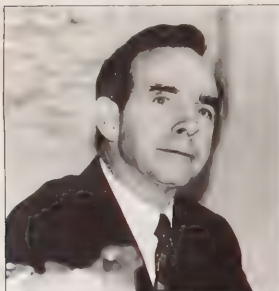
continued from page 1

were "much more active, and remained more active, and lived longer." Dr. Thomas recalled in a recent interview with *Intercom*.

"They had a significant increase in longevity. I didn't expect that. No one did. But that's how it turned out, and you see this in human beings, too — those that remain more active in their life, live longer."

The project lingers in Dr. Thomas' mind because it was a tremendous learning experience. But its most important benefit, he acknowledges, may have been the way it helped shape his beliefs about the importance of active learning and research to undergraduate education.

While Dr. Thomas firmly declines to take credit for the accomplishments of his term — such as the



Joab Thomas at the May Board of Trustees meeting after his announcement that he would retire as president.

Photo: Greg Grieco

University's largest building program in recent memory, the University Future Committee process and private gift support that increased nearly a third during his five years at Penn State — he does admit that he takes great satisfaction in the renewed emphasis he's been able to place on undergraduate education.

And his efforts in that area, in fact, were ranked as Dr. Thomas' top achievement by **John Brighton**, the University's executive vice president and provost. They include:

- Creating the Commission on Undergraduate Education, which has sparked several initiatives, among them improvements in the way the University assesses student performance.

- Setting up the Institute for Innovation in Learning, which promotes the use of active and collaborative learning techniques. (Now in its first year of operation, the institute has sponsored pilot innovation projects in chemistry, agricultural economics, individual and family studies and health policy administration. When the current president's residence is sold, proceeds from the sale will allow the creation of an endowment to support the institute.)

- Creating Penn State's Office of Undergraduate Fellowships, which helps students set their sights on prestigious, highly competitive national scholarships such as the Goldwater, Marshall and Truman scholarships and

the National Science Foundation (NSF) fellowships.

(This year, three Penn State students won Goldwater scholarships and 14 won NSF fellowships. Last year, a Penn State student "came within a hair's-breadth of winning a Rhodes scholarship," said **John Cahir**, vice provost and dean for undergraduate education. "I think there is a good chance that one of our students will win one in the next two or three years, and Joab Thomas will deserve much of the credit," Dr. Cahir said.)

- Establishing a program that acknowledges exceptional contributions to teaching with a 1 percent permanent increase in faculty salaries.

- Strongly backing programs that are bringing increased numbers of students to the University from underrepresented groups.

- Developing new technology-enhanced classrooms and encouraging collaborative faculty efforts to create teaching materials that will best take advantage of the enhanced facilities.

"Penn State has addressed growing concerns in undergraduate education in a very deliberate and serious manner, for the most part managing to avoid the kind of either/or proposition between education and research," Dr. Thomas said.

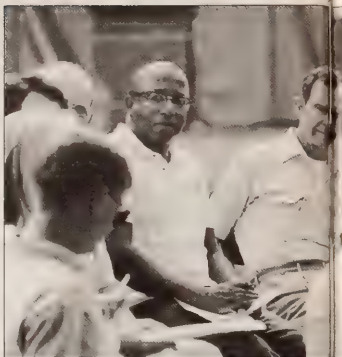
"Education and research should not be competitive. One of the things I've tried to emphasize throughout my five years at Penn State is the important complementarity of teaching, learning and research. In the ideal situation, I think the distinction blurs completely."

Dr. Brighton said Dr. Thomas' emphasis on undergraduate education "was well ahead of its time for research universities. Other university presidents are just now beginning to speak out for a strengthening of undergraduate education." Said Dr. Cahir: "He has put undergraduate education on the center burner every day of his career at Penn State."

In addition to citing his emphasis on undergraduate education, University administrators, deans, faculty and staff credit Dr. Thomas with tremendous growth and improvement in the construction of new buildings and major additions to existing buildings, at a time when the proportion of state support continues to shrink. (These include several high-profile projects, such as the opening of the Research Park and the Penn State Scanticon, and the construction of The Bryce Jordan Center, which is scheduled to open in January 1996). Dr. Thomas, his colleagues say, was highly responsive to the deans' early requests for more classroom space, especially skillful in obtaining funds for 14 construction projects from former Gov. Robert P. Casey's "Jump Start" program, and right on target with a particular emphasis on libraries throughout the system.

Other successes they cite include creating the Future Process, which over three years has cut \$30.8 million in University spending and selectively reallocated \$22.5 million to sharpen the focus on academic quality; spearheading alliances with AT&T, Pepsi, and Barnes & Noble that will bring many benefits to the University; working collaboratively and successfully with various key groups, including the state legislature, the governor's office, faculty, staff and students; and raising the level of private giving from \$62.4 million in 1990-91 to \$82.8 million in 1994-95.

And they credit him also for expanding the role of growth of research support during tough economic times; overseeing the entrance of Penn State into the Committee on Institutional Cooperation (the Big 10's



At the annual Encampment in 1993 at Stone Valley Recreation Area where lives

MAJOR CONSTRUCTION PROJECTS UNDERWAY

During Dr. Thomas' tenure, Penn State experienced new buildings and additions to existing structures. The University undertook nearly \$314 million in construction projects, approximately \$91.3 million in additional projects in progress.

ASI Building	\$23.3 million
Beaver Stadium addition	\$13.5 million
Nittany Lion Inn addition	\$15 million
Classroom/Office Building	\$11.2 million
Eisenhower Parking Deck	\$10.3 million
Mateer Building	\$6 million
ARL Building	\$10 million
Agricultural Facilities (poultry & dairy)	\$13 million
Music Building II	\$5 million
Research Park (Phase A-1)	\$60.5 million
Academic Library Building (Behrend)	\$10 million

WWW Alert — For a full listing of projects, log-in to URL: www.psu.edu

academic counterpart) in a way that elicited the support and respect of the other CIC schools; and for leading the University unobtrusively, forthrightly and well, especially in crucial areas such as last year's budget reductions for the Commonwealth Educational System.

But Dr. Thomas, in his characteristically modest way, brushes aside any suggestion that he deserves credit for these and other accomplishments. "I don't consider these to be my accomplishments by any

Thomas Years

1995

Intercom
August 17, 1995 **9**



University administrators discuss campus and community issues.

Photo: Greg Grieco

ATTAINED DURING THE THOMAS YEARS

endous growth and improvement in construction of the five-year period of his presidency, the projects. As Dr. Thomas plans his departure, or design.

Multi-Purpose Building (Wilkes-Barre)	\$4.2 million
Science and Technology/Bookstore Building (York)	\$2.8 million
Franco Building (Berks)	\$2.65 million
Student Housing, Phase II (Berks)	\$3.2 million
Multi-Purpose Building (Mont Alto)	\$3.5 million
Study/Learning Center (Beaver)	\$2.85 million
Ciotti Memorial Library (Schuylkill)	\$2.6 million
Bryce Jordan Center	\$53 million
Schreyer House	\$1 million

www.pubinfo.psu.edu on the World Wide Web.

means. These are the accomplishments of The Pennsylvania State University," he said.

"I feel very fortunate to have had the privilege of working here with a very talented staff and faculty. That's what made things happen — a group of totally dedicated people."

But those who have worked closely with him insist he's behind the University's major successes. They call him brilliant, perceptive, sensitive, rock-steady, thoughtful and considerate, a quick study, funny, modest, com-

STATISTICAL SNAPSHOT

Below is a statistical snapshot of Penn State in a number of key areas since the arrival in 1990 of Josh Thomas. Unless noted, dollar figures are presented in millions.

	1990-91	1994-95	Percent change
Total operating budget	\$1.2 billion	\$1.5 billion	25 %
State appropriation	\$239.5	\$269.1	12.4 %
Research expenditures	\$267.8	\$316.6 (93-94)	18.2 %
Industry-sponsored R&D (in science and engineering)	\$37.6	\$45.4 (93-94)	20.7 %
Graduate enrollment	10,684	10,950 (Fall 94)	2.5 %
Minority student enrollment	4,977	6,086 (Fall 94)	22.3 %
Total enrollment	70,978	68,826 (Fall 94)	(-3 %)
Minority faculty/professional staff	581	709 (Fall 94)	22 %
Endowments	\$217.6	\$312.3 (93-94)	43.5 %
Private gift support	\$62.4	\$82.8	32.7 %
Endowed faculty positions	140	162 (May 95)	15.7 %
Endowed student aid	1,100	1,600 (May 95)	45.5 %
Alumni Assoc. members	104,460	131,000 (May 95)	25.4 %
Est. physical plant value	\$1.42 billion	\$1.88 billion	32.4 %



Dr. Thomas waits for his pitch during a 1994 softball game between administrators and student leaders.

Photo: Greg Grieco

passionate, extremely well-read, an able and inspiring leader, and always focused on the best course for the University and the needs of the students and the faculty.

They describe in almost a single voice how skillfully he has encouraged his colleagues and motivated his staff; how he is invariably ahead of the curve (and his colleagues) in recognizing upcoming trends and issues and in devising ways to address them; how he has consistently sought not what was expedient but what was best for the University; and how he nearly always deserves the limelight but has steadfastly shunned it.

"He's a man for all seasons," said David Shirley, senior vice president for research and graduate education. "He's everything that a University president has to be. He's deliberative in the way he handles issues, but he's fast. He's got a very quick mind and very good instincts for the right course to take."

Carol Herrmann, senior vice president for administration, said Dr. Thomas "cuts to the bottom line very

quickly, taking very complex issues and making them relatively simple. He's quick at sorting out benefits and drawbacks and getting to resolution."

Others cite his overarching commitment to the students and the faculty. Dr. Cahir said he has always considered Dr. Thomas a faculty member's and student's president. "Whenever I've seen him in action, including some tough moments when the pressure was really on, his concern has been first and foremost the students and the faculty. Whenever an issue comes up, he is always asking about its impact on the students and the faculty."

Barion Browning, an associate professor of German and chair of the University Faculty Senate last year, says Dr. Thomas "has been committed to the highest standards and expectations of the faculty, and he has a good understanding of what it means to be involved in undergraduate teaching and research. He was always willing to be accountable to the faculty on the tough decisions, and he always took firm, principled stands on what he viewed as the right course for the institution."

Mike King, former president of the Undergraduate Student Government (USG), said Dr. Thomas "has always given a great deal of consideration and respect to the views of all students and particularly of USG. He always listened to and considered the views of student

leaders, but he became especially responsive when we brought an idea to him or when we showed we had done our homework on an issue. The more we brought to Dr. Thomas, the more responsive he became and the more actively he participated in some of the things we wanted to do."

When Dr. Thomas announced his retirement in May 1994, Board of Trustees Chairman William Schreyer said that Dr. Thomas has "built on Penn State's strengths and positioned us well for the future." He credited Dr. Thomas with several major accomplishments, including moving quickly to put Penn State at the head of the pack in information technology and laying the groundwork for a grassroots effort dedicated to building political strength for Penn State. "History will be impressed," Mr. Schreyer said.

Dr. Thomas joined Penn State in September 1990, after nearly a decade of high tuition increases, growing enrollment and generous increases in state appropriations. But what welcomed Dr. Thomas were stagnant to slightly declining enrollments and essentially flat levels of state support (including a mid-year cut from the enacted appropriations level in 1991 and reduced appropriations for the next two years). "He came in on the hard part of the curve," said Shirley.

Dr. Thomas realized quickly that the situation was not going to go away — more quickly than everyone else, say his colleagues — and came up almost immediately with the idea of the University Future Committee. He called for three years of tough, but necessary, budget cuts and carefully chosen reinvestments, all in the name of increasing the focus on academic quality. And initially, he met disbelief and resistance.

See "President's farewell" on page 10

President's farewell

continued from page 9

"It's tough to do something like this, when you've just gone through a period of boom and growth and expansion, and the whole University community is thinking in expansionist terms—and logically so, because that had been the direction for quite some time—and you start a course of narrowing the focus and trying to find ways to cut budgets rather than expand budgets," Dr. Thomas said.

"It's a difficult process, and it's particularly difficult initially just to convince the larger community that you need to do this."

But eventually Dr. Thomas prevailed. His committee, chaired by Dr. Brighton, was brilliant, hard-working and tenacious, Dr. Thomas said. In the end, the University community supported the process. And now, some realize that the process not only had to go as far as it did for as long as it did—but perhaps should have gone further.

Gary Schultz, senior vice president for finance and business/treasurer, said creating the committee "was an extremely important and bold move" on Dr. Thomas's part. "Perhaps for a couple of years we could have gotten by, but it would have been to the long-term detriment of Penn State."

Said Dr. Browning: "Dr. Thomas foresaw the financial dangers that lay ahead of us, made the decision that this was what had to be done, and he stayed the course. Across the country, other universities were reducing budgets and making a bunch of it, but at Penn State it was done thoughtfully and consistently."

And Susan Welch, dean of the College of the Liberal Arts, said that the Future Process "has positioned Penn State in a way that other universities have not yet figured out. I think it was a crucial step in continuing Penn State's progress."

Delbert J. McQuaide, University counsel, said that the Future Process was just one of many University successes that came about because of Dr. Thomas' leadership style. "He has been a very effective leader. He gave people the responsibility to do a job, and expected them to do it, and didn't expect them to come back to put it on his desk to finally be done. I think that was a central tenet of his very effective management style."

Others agree. Dr. Brighton said that many of Dr. Thomas' successes have been accomplished "through examples and suggestions. He doesn't give directives—it's not his style. He expresses a point or gives an example, and encourages those around him to come up with an approach to implement a goal or solve a problem."

Nancy Cline, dean of the University libraries and past chair of the Council of Academic Deans, said Dr. Thomas works hard on consensus and seeks input broadly. But, she says, "he knows his own mind and he won't go with the consensus if he feels it's the wrong decision."

Dr. Thomas himself said he tries to see that the system works rather than work the system.

"There's a significant difference between trying to turn all the dials and push all the knobs yourself, and trying to put together the right combination of people who can read the gauges and push the buttons and turn the set screws—and interact with you. I don't hesitate to have input into a situation, and I usually reserve the right to cast the last vote.

But I seriously welcome input from the broadest possible spectrum of people."

However, Dr. Thomas said, he doesn't believe in creating controversy among administrators, faculty and staff as a way of sparking sharper thinking. "For the most part," he said, "my philosophy is to put oil on the gears and not sand. There's plenty of controversy already, and we have enough external threats. We don't have to create internal threats just to develop energy or sparks."



Dr. Thomas in 1993 talking with Douglas Covington, president of Cheyney University and Oswald Lecturer.
Below, in this 1992 photo, Dr. Thomas gives the annual State of the University Address in Eisenhower Auditorium on the University Park Campus.

Photos: Greg Grieco

Several observers said that Dr. Thomas' low-key style was appreciated by the state's legislative and executive branches. For instance, Dr. Browning said, the atmosphere would change when Dr. Thomas took the stand at state budget hearings. "There was a sense of respect, a sense that this was a solid person whose word they could rely on. The antagonistic tone turned to one of respectful attention. Dr. Thomas has been a very well respected and capable spokesman in Harrisburg."

Said Mrs. Herrmann: "At legislative hearings, under heavy fire, he doesn't get shrill or defensive—if anything, under such criticism, he gets calmer, more authoritative and more rational. I think people admire that capability."

Dr. Thomas also was praised for his University-wide plan to address a budget shortfall in the Commonwealth Educational System (CES) last year that was originally projected at \$12 million. Thomas proposed that the shortfall should be split up \$0.50, with the CES making up \$6 million of the shortfall and the other \$6 million coming from internal budget reallocations, and by deferring planned maintenance and other capital projects.

Higher enrollment ended up reducing the amount of the shortfall to \$10 million. Robert E.

Dunham, senior vice president and dean for CES, said that "President Thomas understands the importance of CES to the Commonwealth and was very willing to help it through this temporary enrollment downturn. He also wants to ensure academic quality in the total University system."

Dr. Thomas was also given credit for his support of new library facilities at six Penn State locations: the Ciletti Memorial Library at the Schuylkill Campus, completed in 1994; a new library building at Penn State Erie, The Behrend College, also completed in 1994; the Paterno Library addition to Pattee Library at University Park, for which construction is expected to begin in 1996; a new library at Penn State Harrisburg, for which the state released design funds at the end of 1994; significant expansion of the library at the Hershey Medical Center in 1992; and the purchase of a building in 1994 for a library at the Shenandoah Campus.

According to Dean Cline, Dr. Thomas "always emphasized the culture of learning at Penn State and always made it clear that he sees libraries as an important part of the learning environment. In 1994, before the Board of Trustees, he really homed in on the libraries as a focal point for growth."

In that address, Dr. Thomas said the library "is becoming more than ever the center of the educational process. To extend my metaphor perhaps too far, the library becomes the culture medium and the nutrients in the growth process. Accordingly, the focal point, indeed the capstone of education should be a maturing of the relationship between the student and the library. When this relationship reaches appropriate maturity, the student achieves true independence as a learner."

What will universities be like in the future?

Dr. Thomas says they will "continue to be the nerve center and the creative center for discovery and for learning, but I think the teaching and learning process is going to change radically. We're all going to be in the research and discovery business throughout our lives, because the knowledge gain will be so fast. As information becomes the major capital for progress, rather than dollars, it's easy to predict that the role of universities will continue to be critical."

On a personal level, Dr. Thomas and his wife Marly are going to move back to Tuscaloosa, where they have a home. Dr. Thomas plans to be very active, doing consulting work for universities; updating two books he's written, one on poisonous plants and one on wildflowers; and traveling, including a trip to Australia.

"Also," he said, "I hope to take the advice of the South Alabama philosopher who said, 'Find time to stop and smell the flowers along the way.'"

— Alan Jacobson

For a more detailed look at recent Penn State accomplishments, see the *President's Report, Spring 1995*, which is available from the Office of the President.



For the full text of Dr. Brighton's July speech to the Board of Trustees, which is a tribute to Josh Thomas, log on to the Department of Public Information's Web site at URL <http://www.pubinfo.aud.psu.edu>. A full listing of the construction projects undertaken during Dr. Thomas' tenure can also be found there.

Partings

Family and friends await Enrollment Services head

Richard T. Sodergren, director, Enrollment Services, Office of the University Registrar, has retired after 28 years of service.

Mr. Sodergren, a graduate of Lock Haven University, joined the Registrar's Office in 1969 as assistant to the records officer. He then served as assistant records officer (1970-79), director of registration and scheduling (1979-82), and associate registrar (1982).



Richard T. Sodergren

He was named director of Enrollment Services in 1986. In that position, he supervised all activities related to the scheduling of all classrooms, the publication of the *Schedule of Classes*, evening exams, final exams and the University calendar at University Park. He also supervised the registration and schedule change process at University Park, including the telephone/voice response registration system.

During the last two years, he worked full time integrating the registration and financial records of students enrolling for non-credit courses into the central student computer system, ISIS.

At the University, Mr. Sodergren served as a member of the University Classroom Improvement Committee since 1979 and was vice chair of the committee at the time of his retirement. He also was a member of the University Faculty Senate's Academic and Athletics Standards Committee, University Insurance Committee, and Computers in the Classroom Committee.

In the community, he has served as a member of the boards of directors of the American Red Cross and the Bellefonte YMCA. He is a member of the American Association of Collegiate Registrars and Admissions Officers, and the Middle States Association of Collegiate Registrars and Admissions Officers.

Mr. Sodergren and his wife, Edith, staff assistant in the College of Education, are the parents of three children, Russell, Kathryn and Sandra, all Penn State graduates. In retirement, he plans to spend quality time with his family and friends at his lodge on Kettle Creek in northern Clinton County.

Assistant to financial officer concludes 39-year career

After 39 years of service to the University — five of those in the Office of the President — JoAnne B. Thal, assistant to the financial officer, has retired.

Ms. Thal, who began as a stenographer in the Department of Agricultural Economics and Rural Sociology, moved to the Bursar's Office in 1958 and was then promoted to secretary for the Department of Data Processing Services in 1959.

In 1967, Ms. Thal became a secretary in the Office of the Vice President for Business. As secretary to the assistant vice president for business, she was responsible

for typing, dictation, supplies, student parking deals for the campuses, and maintaining the course catalog for the campus bookstore.

In 1970 she was named secretary to the vice president for business, where one of her duties was to maintain the accounting records for personnel for all Housing and Food Service operations budgets.

Ms. Thal was appointed as assistant to the financial officer in the Office of the Vice President for Business and Operations in 1989, where her main duty was processing budget documents. She resides in Pleasant Gap, Pa.

Fleet Operations foreman retires

Lynn E. Korman, Fleet Operations foreman, has retired after 25 years of service.

Mr. Korman began his service to the University on Jan. 5, 1970, as a property inventory clerk for Housing and Food Services, where he was responsible for the contents of the dining and residence halls at University Park and seven Commonwealth Campuses. In August of 1973 he moved to Fleet Operations and clerk.

With his 1986 promotion to

operations foreman, Mr. Korman assumed responsibility for fleet, campus loop and staff shuttle technical service employees. Part of his duties included scheduling trips and assigning drivers for the University, its Board of Trustees and President.

Mr. Korman plans to spend his retirement catching up on work around the house, taking a trip to Disney World and spending time with his granddaughter.

Several employees end their careers of service to University

Francis J. Bennett, swimming pool operator, Intercollegiate Athletics, from March 1, 1960, to March 2.

Louis A. Bernier, project manager, Office of Physical Plant, from Jan. 19, 1970, to May 1.

Ruth E. Bernitsky, enterostomal therapist, The Hershey Medical Center, from Oct. 25, 1976, to July 1.

Philip G. Burris, supervisor property inventory, Corporate Controller, from May 1, 1964, to Dec. 31, 1994.

Alvin L. Confer, lead technician, heat, vent and refrigeration, Office of Physical Plant, from May 1, 1964, to Dec. 31, 1994.

Anabeth J. Dollins, instructor in mathematics, McKeesport Campus, from Sept. 16, 1988, to June 30.

Bonnie K. Eichelberger, administrative assistant II, Corporate Controller, from March 1, 1964, to Dec. 31, 1994.

Doris L. Hall, residence hall worker, Housing and Food Services, from Oct. 21, 1971, to Dec. 31, 1994.

Harold R. Harter, groundskeeper, Landscape A, Intercollegiate Athletics, from Aug. 5, 1974, to Jan. 4.

Wilbur W. Haupt, lead carpenter, Office of Physical Plant, from Dec. 1, 1958, to March 18.

Charles L. Jones, preventive maintenance worker, Office of Physical Plant, from May 26, 1969, to Dec. 31, 1994.

Jerry P. Jones, electrician, maintenance, Office of Physical Plant, from Oct. 23, 1961, to Dec. 31, 1994.

Robert L. Kimble, manager, Animal Facilities, College of Agricultural Sciences, retired after 11 years of service. Began at the University Nov. 1, 1983; retired July 1.

Alice M. Klinger, staff assistant V, Office of the President, from July 1, 1969, to Dec. 31, 1994.

Kathryn M. Kovacevic, food preparer, McKeesport Campus, retired July 1 after 19 years of service to the University.

Donna J. Kumagai, professor of mathematics at the Penn State Berks Campus, retired July 1 after a 15-year career at the University.

Ruth E. Lansberry, janitorial worker, Office of Physical Plant, from March 12, 1979, to June 30.

Raymond E. Lane, boiler operator, Office of Physical Plant, from Sept. 11, 1967, to Dec. 31, 1994.

Shirley J. Leitch, administrative assistant II, Purchasing Services, from June 9, 1958, to Dec. 31, 1994.

Rex E. Lightner, apprentice refrigeration technician, Office of Physical Plant, from Feb. 8, 1971, to Dec. 31, 1994.

Clyde E. Long, maintenance worker A, Office of Physical Plant, from April 13, 1940, to April 15.

Hazel R. Markle, staff assistant VI, Corporate Controller, from Sept. 1, 1970, to Jan. 1.

Arlene B. Martin, staff assistant V, Delaware County Campus, from July 16, 1984, to June 1.

Francis D. Moore, athletic equipment and facilities worker, Intercollegiate Athletics, from Jan. 1, 1962, to Jan. 19.

Harold L. Porter, staff assistant IV, Nittany Lion Inn, from Aug. 16, 1963, to April 1.

Judy A. Sager, staff assistant V, C&IS Administrative, from June 1, 1957, to Dec. 31, 1994.

Ronald E. Schaeffer, operating mechanic, Office of Physical Plant, from Oct. 1, 1962, to Dec. 31, 1994.

Carolyn R. Schreffler, media and sterilization attendant, group leader, The Hershey Medical Center, from Oct. 1, 1979, to July 8.

Sharon G. Stoner, staff assistant VI, Corporate Controller, from March 1, 1969, to Dec. 31, 1994.

William E. Stoner, coordinator ICA equipment and stockroom, Intercollegiate Athletics, from March 1, 1960, to Dec. 31, 1994.

Victor L. Waite, plumber-fitter, Office of Physical Plant, from Oct. 28, 1969, to Jan. 5.

Lynn Wasson, maintenance worker, steam traps, Office of Physical Plant, from Sept. 16, 1964, to Dec. 31, 1994.

Harold R. Wilson, horticulture aide, College of Agricultural Sciences, from April 1, 1980, to June 30.

Joe Zimmerman, painter A, Office of Physical Plant, from June 1, 1970, to Dec. 31, 1994.

Fall 1995 Computer Course Schedule

Human Resource Development Center
Wagner Computer Training Center

The following computer courses for faculty and staff, held in room 116 or 117 Wagner Building, are joint offerings of HRDC, the Center for Academic Computing and the Office of Administrative Systems. To register, complete the form found in the HRDC Course Schedule, which also includes course descriptions and costs. For more information, call 863-7491.

Course	Date	Time
IBM Topics		
IBM WordPerfect Level 1	Sept. 11, 13	9 a.m.-noon
IBM Word for Windows Quick Start	Sept. 18, 20	8 a.m.-noon
IBM Excel Level 1	Sept. 18, 20	1-5 p.m.
IBM Excel Level II	Nov. 15, 17	8 a.m.-noon
IBM WordPerfect Level II	Oct. 2, 4	9 a.m.-noon
IBM Intro to Windows	Oct. 9, 11	8 a.m.-noon
IBM Intro Microcomputer/DOS	Oct. 9, 10	1-5 p.m.
IBM WordPerfect DOS	Oct. 16, 18, 20	1-5 p.m.
IBM PageMaker	Oct. 23, 25, 27	1-5 p.m.
IBM Word for Windows Quick Start	Oct. 25, 27	8 a.m.-noon
IBM PowerPoint	Oct. 30, Nov. 1	8 a.m.-noon
IBM Access Level I	Oct. 30, Nov. 1	1-5 p.m.
IBM Word for Windows Complete	Nov. 6, 8, 10	1-5 p.m.
IBM Intro Windows	Oct. 8, 10	8 a.m.-noon
IBM WordPerfect for Windows Macros	Nov. 13	8 a.m.-noon
IBM Lotus Windows	Nov. 13, 15	1-5 p.m.
IBM Access Level II	Nov. 20, 22, 24	8 a.m.-noon
IBM Word for Windows Quick Start	Nov. 20, 22	1-5 p.m.
IBM Word Complete for Windows	Nov. 27, 29, Dec. 1	8 a.m.-noon
IBM Excel Level II	Nov. 27, 29, Dec. 1	1-5 p.m.
Mac WordPerfect Level III	Dec. 4, 6	9 a.m.-noon
Mac Intro to Windows	Dec. 4, 6	1-5 p.m.

Mac Topics

Mac Word	Aug. 28, 30, Sept. 1	1-5 p.m.
Mac Intro to Mac	Sept. 8	9 a.m.-4 p.m.
Mac Intro to Mac	Nov. 13	9 a.m.-4 p.m.
Mac Filemaker Pro Level I	Sept. 19	1-5 p.m.
Mac Excel Level I	Sept. 20	9 a.m.-4 p.m.
Mac Excel Level II	Nov. 1	9 a.m.-4 p.m.
Mac Pagemaker	Sept. 25, 27, 29	1-5 p.m.
Mac Photoshop	Oct. 4	9 a.m.-4 p.m.
Mac Photoshop	Nov. 6	9 a.m.-4 p.m.
Mac Filemaker Pro Level II	Nov. 14	1-5 p.m.
Mac Excel Level II	Nov. 15	9 a.m.-4 p.m.
Mac Word	Dec. 4, 6, 8	1-5 p.m.

Administrative Topics

Intro to IBIS	Sept. 19	1-4:30 p.m.
Intro to IBIS	Oct. 24	1-4:30 p.m.
Intro to IBIS	Dec. 5	1-4:30 p.m.
Intro to IBIS (Mac)	Oct. 2	1-4:30 p.m.
Using EMC2/TAO	Sept. 29	9 a.m.-noon
Using RMDS	Oct. 11	1-4 p.m.
IBIS Financial Forms	Oct. 13	8 a.m.-noon
Using EMC2/TAO	Oct. 20	9 a.m.-noon
Intermediate IBIS	Oct. 23	9 a.m.-noon
Intermediate IBIS	Dec. 19	9 a.m.-noon
IBIS Financial Forms	Sept. 21	1-4 p.m.



Technological know-how

Thompson Buchan, (right) and Jing Li, both information technology consultants, lead Image software on IBM Thinkpads for the Commonwealth Educational System as part of Project Vision, a program designed to make computer-enhanced instructional technology available to CES faculty.

Photo: Greg Gneco

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Saturday, August 19 & Sunday, August 20
Students arrive.

Wednesday, August 23

Fall classes begin.

Saturday, August 26

Wildlife Arts Festival, 10 a.m.-7 p.m., Shaver's Creek Environmental Complex and Raptor Center. For more information, call 863-2000.

Sunday, August 27

School of Music, 8 p.m.-Reital Hall. Mark L. Lusk, trombone.

Icon. Through Aug. 23.

Modern Bearing Technology, 30 attendees. The Penn State Scanticon. Through Oct. 25.

PUBLIC RADIO

WPSU-FM 91.3

"Morning Edition," Mon.-Fri., 6-9 a.m.
"Performance Today," Mon.-Fri., 9-11 a.m.

"All Things Considered," Mon.-Fri., 5-7 p.m.; Sat.-Sun., 5-6 p.m.

"Fresh Air with Terry Gross," Mon.-Fri., 4-5 p.m.

"Odyssey Through Literature with S.

Leonard Rubenstein," Weds., 7 p.m.

"Car Talk," Fri., 7 p.m. and Sun., 6 p.m.

"Living On Earth," Mon., 7 p.m.

"Piano Jazz with Marion McPartland," Mon., 8 p.m.

SEMINARS

Friday, August 26

Carbon Research Center/Fuel Science, 9 a.m., C213 Coal Utilization Laboratory. E.A. Heinz on "The Graphitization Process."

CONFERENCES

Thursday, August 17

30th Actuarial Research Conference, 70 attendees. The Penn State Scanticon. Through Aug. 19.

Monday, August 21

Helping Adults Develop Literacy Skills, 100 attendees. The Penn State Scanticon.

EXHIBITS

Palmer Museum:

"Psalms," non-objective paintings by West Coast painter John McDonough, through Oct. 1.

"Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.



LECTURES

Research workshops to span academic year

For the fourth consecutive year, the Research Administration Workshops series will be held during fall and spring semesters at University Park.

The workshops, designed to provide faculty, staff, graduate students and new personnel with information about various aspects of research administration at Penn State, are sponsored by the Education Subcommittee of the Administrative Committee on Research II.

This year's series consists of eight workshops, each offered at one of three session levels. Basic-level workshops provide an introduction to processes and procedures and are geared toward personnel with fewer than five years of experience at Penn State. Specialized-level workshops offer detailed information on specific research administration procedures and are designed for personnel who are actively involved in such procedures. Advanced-level workshops explore problems and unusual situations that might arise during the course of a research project and are intended for research administrators with five or more years of experience.

All workshops will be held in 256 Hammond Building from 8:30 a.m. to noon. Registration is limited to the first 25 paid applicants per session.

■ The first workshop, "Human Resources: Issues Relating to Research Personnel," will be held Monday, Aug. 28. This specialized-level workshop will cover personnel issues such as types of appointments; hiring, renewal and termination; foreign national information; wages and salaries; and professional ethics.

■ The second workshop, "An Introduction: The Whos and Whats of Research Administration," will be held Wednesday, Sept. 13. This basic-level workshop will provide an overview of the research environment and will place special emphasis on the research administrator's role in the process.

■ The third workshop, "Proposals: The Wheres and Hows of Proposal Preparation," will be held Monday, Oct. 16. This basic-level workshop will outline the mechanics of proposal preparation and revision, timelines for production,

pre-award audit and methods for accurately estimating specific information.

■ The fourth workshop, "Budget Basics and Budget Building: Definition, Discussion and Other Relevant Facts Relating to Budgeting," will be held Wednesday, Nov. 15. This specialized-level workshop will cover topics such as fringe and overhead rates, budget estimating procedures and agency guidelines and budget forms. Participants should bring a calculator to the session.

■ The fifth workshop, "Ad-vanced Budget Building: How to Budget and Defend Your Request," will be held Wednesday, Jan. 10. This advanced-level workshop will cover stipends and tuition, subcontracts, cost sharing and matching, cost estimates and other budget-related issues. Participants should bring a calculator to the session.

■ Workshop No. 6, "Contract and Legal Issues: The Wheres and Whys of Awards," will be held Monday, Feb. 19. This basic-level workshop will explore legal aspects of the award process, including types of agreements, intellectual property, audits and terms and conditions.

■ The seventh workshop, "Intellectual Property issues: What You Want, What We Want—Who Gets What," will be held Wednesday, March 20. This advanced-level workshop explores issues such as confidentiality, copyrights, patents, invention disclosures and conflict of interest.

■ The final workshop, "Awards: The Wheres and Hows of Project Administration," is scheduled for Wednesday, April 10, 1996. This basic-level workshop will outline the mechanics of award administration, subcontracts, closing of funds and other issues related to project administration.

The registration fee is \$45 per workshop. To register, contact Linda Cartwright at 863-4019 in 110 Technology Center. For more information, contact Mary Lee Moore at 865-1626, 201 Research Office Building, or John McKee at 865-1804, 101 Hammond Building.

Three-part lecture series to focus on community values

The Center for Ethics and Religious Affairs is offering a three-part series of lectures at the University Park Campus on "Values in the Community," featuring discussions on cultural issues, values and theological perspectives.

The first lecture, scheduled for 7:30 p.m. Sept. 14, in 112 Kern Commons, is "Values in Popular Culture," presented by Michael Eric Dyson, from the University of North Carolina Chapel Hill.

Dr. Dyson, author of several books including *Reflecting Black: African American Cultural Criticism*, and *Making Malcolm: The Myth and Meaning of Malcolm X*, is well known for his broad cultural criticism addressing racism, sexism, classism and other social ills. In 1992, he received the magazine award from the National Association for Black Journalists for his work.

On Oct. 24, at 7:30 p.m., in the Paul Robeson Cultural Center, Emilie M. Townes, from the Saint Paul School of Theology in

Kansas City, Mo., will give a presentation titled "And All the Colored Folks is Cursed: The Impact of HIV/AIDS on the African-American Community."

Dr. Townes, one of the leading black feminist theologians in the nation, earned her degrees in theology and ministry. She is the author/editor of *A Troubling in My Soul: Womanist Perspectives of Evil and Suffering* (1993) and *In a Blaze of Glory: Womanist Spirituality as Social Witness* (1995). Her scholarly work has addressed the interplay between racism, sexism and homophobia in church and society.

The final lecture, set for 7:30 p.m. March 14, in 101 Kern Commons, features Fernando F. Segovia, an award-winning teacher at The Divinity School at Vanderbilt University, discussing "Latino Conceptions of Community: Cultural Theological Perspectives."

Dr. Segovia, author of five books, has lectured extensively on the development of Hispanic American theology.

Graphitization is focus of talk

The tailor-making of artificial graphite, which can be used as heat exchangers, mechanical rings and seals, substrates and in various applications, is a challenge for researchers.

To better understand the chemistry of the carbonization and graphitization processes, a seminar, sponsored by the Carbon Research Center/Fuel Science, will be held from 9-10 a.m. Fri-

day, Aug. 25 in C213 Coal Utilization Laboratory on the University Park Campus.

E.A. Heintz, from the State University of New York at Buffalo, will give a talk on "The Graphitization Process," which will emphasize how subtle changes in raw materials, formulation and processing conditions can produce graphites to satisfy a variety of applications.

Dairy management symposium set

Pennsylvania has lost more than 2,000 dairy farms since 1985, with more than 1 percent going out of business each year.

"Managing Dairy Farms into the 21st Century," a dairy management symposium sponsored by the College of Agricultural Sciences and Monsanto, Inc., is set for Dec. 7, will address topics vital to the dairy industry's future.

Beginning at 1 p.m. and run-

ning through 4:30 p.m. on Dec. 8 at the Hershey Convention Center in Hershey, Pa., experts from Penn State, Cornell University, Ohio State and industry will discuss various topics.

For more information about "Managing Dairy Farms Into the 21st Century," write to Michael O'Connor, The Pennsylvania State University, 324 Henning Building, University Park, Pa. 16802, or call (814) 863-3913.



Getting ready

Charlie Trimble, an employee with Housing and Food Services, helps prepare residence halls on the University Park Campus for the return of students by caulking seams in a wall in Bigler Hall. New student arrival day is Saturday, Aug. 19.

Photo: Greg Grieco

Weatherization Training Center turns 10

The Weatherization Training Center at Pennsylvania College of Technology recently celebrated its 10th anniversary of serving the community and the state.

The center, the only one of its kind in a five-state region, receives U.S. Department of Energy funding.

Located at Penn College since 1985, the Weatherization Training Center trains weatherization professionals employed by non-profit community action agencies which provide home

energy conservation assistance to elderly and low-income clientele.

More than 3,500 students from Pennsylvania and four surrounding states have attended classes and workshops at the center.

Since 1977, local weatherization programs, through the Pennsylvania Department of Community Affairs, have provided weatherization assistance to approximately 900,000 elderly and low-income Pennsylvanians.

Wilkes-Barre library dedication held

A ceremony for the dedication and naming of the Nesbitt Library at the Penn State Wilkes-Barre Campus was held recently on the front lawn of the library building.

The event honored the Abram and Caroline Nesbitt family of Dallas, Pa. for their generous support to the campus.

The Nesbitts' recent gift of more than \$1 million is for a future endowment fund to support the campus' programs in surveying, biomedical engineering technology and the campus library.

Mr. Nesbitt has been on the campus' Advisory Board for more than 30 years.

Penn Staters

Ram B. Bhagat, senior research associate in the Intercollege Research Program and associate professor of engineering science, was chairman of a ceramic matrix composite session and gave an invited lecture on "Design and Analyses of Multilayered Graded Interphase in Titanium Matrix Composites" at the 7th Japan-U.S. Conference on Composite Materials at Doshisha University in Kyoto, Japan.

Anthony Castro, senior research associate in veterinary science, presented a series of seminars on the use of biotechnology for diagnosing viral diseases in animals at the Universiti Pertanian Malaysia in Kuala Lumpur, Malaysia. He also presented a workshop there on immunohistochemistry with **Marlene Castro**, research support technician in veterinary science.

Paul Dimick, professor of food science, gave a talk on "Protecting Milk's Vitamins from Light: Does it Work?" in London at a seminar on flavor and vitamin stability in milk.

Terry Eiherton, professor of animal nutrition, gave two invited talks in Australia: "Molecular Aspects of Growth Regulation - The U.S. Perspective," and at Gropep and the University of Adelaide in Adelaide, Australia, "Suppression of Adipose Tissue Growth by Somatotropin: A Story of Transcriptional Regulation of Lipogenic Enzyme Genes."

Hector Flores, professor of plant pathology and biotechnology, gave an invited talk at the second Latin American Meeting in Plant Biotechnology (REDBIO 95), in Iguazu, Argentina. Dr. Flores' talk was about "Underground Metabolism Research: Perspectives for Latin America."

Carol Gay, professor of cell biology and poultry science, lectured at a conference titled "Comparative Endocrinology of Calcium Metabolism" at the Royal Zoological Gardens in Melbourne, Australia. The title of her lecture was "Avian Bone Turnover and the Role of Bone Cells."

Steven Heine, associate professor of religious studies, presented a paper titled "The Role of Repentance—or Lack of It—in Zen Monasticism" at the Seventh International Conference on Buddhism and Leadership for Peace sponsored by the Department of Philosophy and the East-West Center of the University of Hawaii. The paper will be included in a volume to be published by the University of Hawaii Press.

Steven Herb, head of the Education Library, was named vice-president/president-elect of the Association for Library Service to Children, a division of the American Library Association. The association has been addressing

the library, literature and information rights of children since its founding in 1901.

Erdener Kaynak, professor of marketing at Penn State Harrisburg, received an honorary doctorate in economics from the Turkey, Finland, School of Economics and Business Administration.

Several faculty members from the University Libraries were elected to serve as officers for various American Library Association (ALA) organizations. They are: **Melissa Lamont**, maps librarian, chair of the Map and Geography Roundtable and chair of the State and Local Documents Task Force for the Government Documents Roundtable; **Amy Paster**, acting head of the Life Sciences Library, chair-elect of the Science and Technology Section of the Association of College and Research Libraries (ACRL); **Loanne Snavely**, head of the Arts Library, chair-elect of the Bibliographic Instruction Section (BIS) of ACRL; and **Diane Zabel**, social sciences reference librarian, secretary of the BIS Section.

Jane P. Mutchler, associate professor of accounting in The Smeal College of Business Administration, has been reappointed the Coopers & Lybrand Faculty Fellow for the 1995-96 academic year. A leading teacher and researcher in the Department of Accounting, her work has focused on auditor decision making, differences in decisions across auditing firms, surrogate measures for audit risk and the effects of competition on auditor decision options.

Gary H. Perdew, professor of veterinary science, has been selected as a member of the Toxicology Study Section, Division of Research Grants, in the National Institutes of Health. Selected on the basis of their demonstrated competence and achievement in their scientific discipline, members have the opportunity to contribute to the national biomedical research effort by reviewing grant applications submitted to NIH, making recommendations and surveying the status of research in their fields of science.

Londa Schiebinger, professor of history and women's studies, and a 1974 graduate of the University of Nebraska-Lincoln, received an Alumni Achievement Award from that institution for demonstrating outstanding achievement and overall professional excellence. She was among five arts and sciences alumni named by the UNL Alumni Association this year.

John Shenk, professor of plant breeding, was named National Outstanding Alfalfa Researcher by the Cereals Alfalfa Seed Council for his work on near infrared reflectance spectrography.

Fly-fishing scientist finds possible missing link in insect flight

A fly used as a model for fishing lures has led James H. Marden, assistant professor of biology, to a new theory of how flight evolved in insects. His recent studies of the stonefly reveal its ability to skim across the water surface on its feet—like a Florida airboat equipped with pontoons. This behavior could be an ancient form of locomotion that fostered the development of large muscles and other factors necessary for full airborne flight.

Many fly-fishing lures look like the stonefly nymph—a prime food object for fish. “My interest in fishing had me thinking about the insect behaviors mimicked by fishing lures, then that interest evolved into a curiosity about the evolution of flight,” Dr. Marden recalls.

The evolution of insect flight has long been one of the great mysteries in evolutionary biology. Scientists generally agree that wings evolved from the gills of water-dwelling species about 400 million years ago, but until now they have lacked a convincing explanation of how flying insects could have evolved from these nonflying swimmers.

“The dominant theory is that flying evolved from gliding, but that didn’t make any sense to me because most insects just don’t glide,” he said. In addition, Dr. Marden said a glider’s wings have to be rigid, but all flying insects flap their wings.

“A flying insect needs to have sophisticated joint articulation, a sophisticated neural pattern, and a large proportion of its muscle mass specialized for flapping—how could all that have evolved in an insect specialized for holding its wings horizontal and perfectly rigid?”

Instead, Dr. Marden proposes a direct evolu-



James H. Marden, assistant professor of biology, and Melissa G. Kramer, an undergraduate biology student, researched the evolution of flying insects.



The stonefly, seen here on ice.

tionary route from swimming to true flying.

With the stonefly to demonstrate his theory, Dr. Marden has shown how surface skimming could be an intermediate stage in the evolution of strong flapping wings. Stoneflies, and their close cousins the mayflies, are thought to be almost like living fossils.

They are the lineages in which the ancestral traits are most similar to the first flying insects,” he said.

In late winter, wingless stonefly nymphs come out from under rocks on the bottom of streams throughout eastern and central North America, float up to the surface of the water, migrate toward the shore, and emerge from the nymph stage into adults with wings, where they live for the rest of their lives without ever flying.

But sometimes when a stonefly emerges on sticks or ice floating in the mid-

dle of a stream it must get to land by using its new wings to send it skimming across the surface of the water. Dr. Marden said this is the only time in its life that these stoneflies are known to flap their wings.

“The behavior probably is maintained for periodic episodes of flooding when all the stoneflies would have to surface skin to the shore and survival of the entire group would depend on surface-skimming ability,” he said.

Because stoneflies emerge in the winter when trout are cold and sluggish, they can get away with surface skimming, which in warmer months would instantly attract lively and hungry fish.

Dr. Marden tested his theory by videotaping stoneflies brought to the laboratory by undergraduate student Melissa G. Kramer, a biology major and coauthor with Dr. Marden of a paper describing their research.

Dr. Marden and Ms. Kramer put individual stoneflies on a dish of water and videotaped them

Dr. Marden is sharing portions of his laboratory video with those who have access to the World Wide Web. The video can be viewed with Mosaic or Netscape. The URL is <http://cac.psu.edu/~jhm10>.

as they flapped their wings and skimmed across the surface.

The biologists clipped the wings of some of the insects and found that even very short wings worked well for surface skimming.

“The nymph’s gill plates have the neuromotor pattern, the complex articulation and the muscles for moving fluid,” Dr. Marden said, “so they just need bigger gill plates and bigger muscles to go from moving water to moving air—not that huge an evolutionary jump.”

The biologists also studied the feet and wings of the insects under a scanning electron microscope and discovered they are covered with hairs that look somewhat like miniature ice skates, giving a water-resistant coating to those body parts. Stoneflies are able to lift their water-resistant wings from the water, raising their body high above it on their long legs. The hairs on their feet help stoneflies reduce their contact area with the water and its resulting surface tension.

Dr. Marden plans to analyze the water-resistant hairs on the feet and wings of both stoneflies and mayflies to see if their amino-acid or gene-sequence data demonstrate that they had a common ancestor. If the analysis shows this ancestor also had wet-resistant wings and feet, scientists could infer that it was a surface skimmer and that surface skimming could be the evolutionary bridge to insect flight.

—Barbara K. Kennedy

Research



Software
aids
traffic
flow

You’re in a queue in your car waiting to drop your child off at school. The line holding up traffic in the street is getting longer, tempers are getting shorter and safety is taking a back seat as everybody tries to get to the drop-off point and get out of there. There’s got to be a better way.

There is, according to Lilly Eleftheriadou, assistant professor of civil engineering and research associate at the University’s Pennsylvania Transportation Institute.

Dr. Eleftheriadou recently produced the first published report that demonstrates how transportation planners can use general purpose simulation software with an ordinary personal computer to solve such problems quickly and easily.

Simulation software can allow a transportation planner to rearrange a drop-off site and traffic patterns on the computer until the best solution is found, she said.

Dr. Eleftheriadou is incorporating the use of the software in her graduate traffic operations and simulation class since she says it’s so easy to learn.

Marital bliss

Husbands who become less traditional in their attitudes about men’s and women’s family roles find that their marriages improve, according to a University sociologist.

“Husbands who become more supportive of their wives’ career plans and decide that it is all right to do more housework and child care report greater marital happiness, more shared activities and fewer conflicts with spouses,” Alan Booth, professor of sociology and human development, said.

“The down side is that wives who become less traditional in their attitudes toward these same topics report their marriages get worse,” Dr. Booth said.

“Thus, husbands can reduce stress in contemporary marriages when they shift attitudes to support role-sharing and gender equality.”

Dr. Booth and Paul R. Amato, professor of sociology at the University of Nebraska-Lincoln, based their findings on a national survey of 2,033 married people interviewed in 1980 and again in 1988.

End-of-summer program relieves parental worry

As the dog days of summer wind down and children's camps begin sending their seasonal charges home, those words that were so familiar at the beginning of summer return to haunt parents: "There's nothing to do!"

Those dreaded four words from your children are what prompted the University's Office of Human Resources (OHR) to come up with a solution for working parents who were faced with the dilemma of what to do with their children during the waning days of summer, before the onslaught of the school year.

From Aug. 28 through Sept. 1 at the University Park Campus, a new full-day program for school-age children of students, faculty and staff members set up by OHR can occupy your children's time and alleviate the child care concern.

DASH, or Discover Alternative Service Help, is a one-week camp packed with creative and educational activities, like soap carving, hiking, kite flying and treasure hunts.

"Penn State's first week of classes is crunch time for all students and employees," Prudence Johnson, director of the program, said. "We realized that because many of the summer programs in the region rely heavily on Penn State students who must return to the classroom, there were no programs that continued their operation during this last week before school started. That really left parents in a bind."

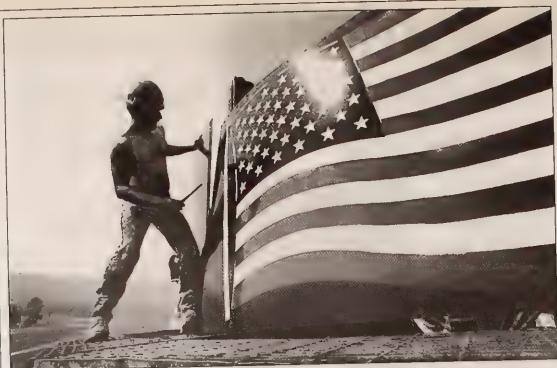
In an open invitation to OHR staff members, Billie Willis, assistant vice president for human resources, called for volunteers to staff the pilot program. In response, about 22 OHR employees offered their skills in everything from reading to bubble-making. In addition, OHR employees in Rider Building agreed to pitch in during the week, covering other employees' duties to make the program a success.

"The response was terrific," Ms. Johnson said. "This program could be one of the most rewarding and fun opportunities employees have."

Some of the activities planned for the week include:

- Soap Carving with Tom Federowicz;
- Go Fly a Kite with Stephen Selts;
- Pouring Sands of Time with Mary Jane Hall and Cathy Kanour;
- Clowning Around with Beth Dorman and Amy McCracken; and
- I Never Saw a Purple Cow with Joyce Gailbraith and Charlene Kootz.

For more information about the program, contact Ms. Johnson at 865-9193.



Making Progress

Craig Tyner, an employee of Penn Jersey Products, works to assemble the silo cone for Ag Progress Days. The annual event, held at the University's 1,500-acre Russell E. Larson Agricultural Research Center at Rock Springs, opened Aug. 15 and ends today. Ag Progress Days is sponsored by the College of Agricultural Sciences.

Photo: Greg Gneco

Private Giving

Berks receives \$1 million gift

Helen H. and William G. Hintz Jr. of Wyomissing, Pa. have made a \$1 million gift to the Penn State Berks Campus—the largest ever received by the campus.

The gift is earmarked for two initiatives: to fund engineering laboratories that will support the new bachelor of science degree in electrical mechanical engineering technology—developed in response to local industry needs—and to create an endowment that will help enhance and improve the quality of the engi-

neering and science programs at Berks Campus, including the purchase of new equipment, renovations/additions to existing laboratories and maintenance costs.

The Hintzs used two techniques in making their gift to the campus. They made an outright gift of stocks valued at \$250,000. The sale of these stocks will provide funding for the engineering laboratories. They also used \$750,000 to create a charitable gift annuity, an agreement in which a donor gives the University cash or

securities while retaining the lifetime income interest on the gift. Upon the donor's or designated beneficiary's death, the remainder is used by the University to fulfill the stated purpose of the gift, in this case the endowment for the engineering and science programs.

Mr. Hintz is a 1921 graduate of Penn State's College of Engineering. He and Mrs. Hintz, born Helen Hollenbach, owned Hintz's Book Store in Reading until 1961.

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Spanier spreading University message



Photo: Greg Gireco

Out and about

President Graham Spanier talks with Anthony and Frankie Mackintosh of N.J. and their grandfather George Bosque at Ag Progress Days.

"Agriculture is the heart of the University and a big part of our mission," President **Graham Spanier** told about 700 people who gathered Aug. 16 at the Ag Progress Day legislative luncheon in Rock Springs. Among those in the audience was Pennsylvania Gov. Tom Ridge.

This was Dr. Spanier's first public appearance since arriving at the University a few weeks ago and he called it "fitting" that it was "at an event so closely associated with the basis for Penn State when it was founded. Agriculture has always been the heart of this University and it continues to be one of the principal parts of our mission."

Dr. Spanier and Gov. Ridge lauded Ag Progress Days' importance to the future of agriculture — Pennsylvania's

No. 1 industry. They also praised the work of **Lamartine Hood**, dean of the College of Agricultural Sciences, for his outstanding service in agriculture and his national leadership. Dean Hood was given a proclamation praising Ag Progress Days for its continued growth and for being the leading outdoor agricultural event in the state.

"While the occasion here today is steeped in the agricultural heritage of Penn State, it also celebrates some of the most important themes that I see for the University's future — our land grant mission, and in the context of that mission, Penn State's commitment to progress and to people," Dr. Spanier said. "Penn State's partnership with Pennsylvania's

See "Spanier" on page 3

Four named to participate in leadership program

Four individuals from Penn State have been appointed to serve as Fellows to the Committee on Institutional Cooperation (CIC) Academic Leadership Program by **John A. Brighton**, executive vice president and provost. They are:

—**Rodney A. Erickson**, dean of the Graduate School;

—**Lynne Vernon-Feagans**, associate dean for research, College of Health and Human Development;

—**Peter C. Jurs**, professor of chemistry and 1995-96 chair of the University Faculty Senate; and

—**Eliza Pennypacker**, associate professor and interim head of the Department of Landscape Architecture.

As the academic consortium of the Big Ten universities and the University of Chicago, the goal of the CIC is to develop the leadership and managerial skills of faculty on CIC campuses who have demonstrated exceptional ability and administrative promise. The four individuals selected to represent Penn State were chosen because of their past contributions and the potential for enhanced development for key leadership responsibilities within the University.

Previous Fellows from the University include: **Barbara Shannon**, and **James F. Smith Jr.** (1991-92); **Katherine Fennelly**, **Robert N. Pangborn** and **William D. Taylor** (1993-94); and **Ingrid M. Blood**, **Barton W. Browning**, **Donald W. Leslie**, **Robert A. Secor**, and **Diane H. Smith** (1994-95). Penn State did not participate in the program in 1992-93.

Inside



Let's hear it for the humble exit sign!

At University Park, Office of Physical Plant workers strive to make the 2,882 exit signs on campus more energy efficient. See page 8.



Affairs of the heart

McKair Scholar works to improve fluid flow dynamics of pediatric heart assist pump. See page 11 for story.

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Alcohol prevention council looking for new members

The Council for the Prevention of Alcohol and Other Drug Abuse, established in 1993, is seeking nominations for new members from all campus locations.

The council, involved in numerous activities including the creation of an addiction specialist position in Student Affairs, support of the keg ban at Beaver Stadium and in downtown apartments, and the establishment of a substance-free interest house and the employee assistance program, aims at educating the University and community of the importance of addressing alcohol and other drug issues.

In addition, the council seeks to educate students early in their college experience and oversees the continuing efforts of the University in preventing the abuse of alcohol, tobacco and other drugs.

Most recently, a subcommittee of the council has been involved in developing a potential first-year student seminar course and has conducted a curriculum infusion survey to determine the extent that faculty are involved in disseminating information about alcohol, tobacco or other drugs in their courses.

Anyone interested in becoming a member of the council, should send a memo indicating interest to: **Ann Hollendoner**, staff assistant, Council for the Prevention of Alcohol, Tobacco and Other Drug Abuse, 237 Rittenour Building, University Park, Pa. 16802, or E-mail Natalie_Croll_at_ncc@psu.edu before Sept. 7. Recommendations for membership will be made on Sept. 8 and a new member orientation will be held Sept. 18 from noon to 1:30 p.m. in 404 Old Main. A full council meeting will follow.

Nominations sought for potential international award recipients

The International Council is accepting applications and nominations for three International Achievement Awards. The annual awards, funded by the Office of International Programs, recognize three members of the University community—an undergraduate student, a graduate student and a member of the faculty or staff—who have significantly contributed to the advancement of Penn State's international mission.

Each award carries with it a certificate of recognition and a \$1,000 stipend.

The finalists in each of the categories will be honored at a reception, and the three winners will receive their awards at the annual University Awards Convocation in the spring of 1996.

For more information on each award or to request application/nomination forms, contact **Edward V. Williams**, 115 Arts Building, University Park, (814) 863-0408. Applications and nominations must be received by Friday, Dec. 8.

Berks Campus bookstore named in honor of \$1 million donor

The bookstore on the Penn State Berks Campus was named the William G. Hintz Building to honor the Penn State graduate who just gave \$1 million to the campus.

Mr. Hintz turned 99 on Aug. 2, the day of the naming, and in order to be on time for the ceremonies, cut his usual three-mile walk down to one-and-a-half miles that day.

Mr. Hintz, who graduated from Penn State's College of Engineering in 1921, made the gift because "Penn State is always number one in my mind."

Mr. Hintz and his wife, **Helen**, earmarked their gift for two initiatives at the Berks Campus.

An outright gift of \$250,000 in stocks will furnish engineering laboratories to support the new bachelor of science in electrical mechanical engineering technology program to be offered at the Berks Campus beginning fall 1996. The program was designed in response to industry needs for engineers with combined skills for the modern work place. The rest of the Hintz gift was a charitable annuity trust for improvements/renovations and maintenance of engineering and science laboratories.

Mr. Hintz was the owner of Hintz's Book Store until 1961.

National Weather Service director to be honored as Alumni Fellow

Thomas D. Potter, director of the Western Region of the National Weather Service, will visit University Park on Friday, Sept. 8, to be honored as an Alumni Fellow of the College of Earth and Mineral Sciences. He received his doctorate in meteorology from Penn State in 1962.

Dr. Potter has directed the western operation of the National Weather Service since 1989. He was previously with the World Meteorological Organization in Geneva, Switzerland, where he directed the World Climate Program and then the World Weather Program.

He received his undergraduate education in meteorology and mathematics at the University of Washington, and joined the U.S. Air Force as a weatherman during the Korean War. He stayed in the Air Force for 24 years and rose to head of the armed forces' worldwide weather organization, providing international and weather services to both the Air Force and Army.

During his military ser-



Thomas D. Potter

vice, he also attended Penn State and the Industrial College of the Armed Forces, and graduated from the Advanced Management Program at Harvard Business School.

On his retirement from the Air Force, Dr. Potter initially joined the faculty of St. Louis University, but led to become director of the National Climatic Center of the National Oceanic and Atmospheric Administration (NOAA), in Asheville, N.C.

From 1977-82, he served as director of NOAA's Environmental Data and Information Service in Washington, D.C.

Dr. Potter is an elected Fellow of the American Meteorological Society and holds the Legion of Merit from the U.S. Air Force, and the Presidential Award of Meritorious Executive in the Senior Executive Service.

During his Penn State visit, he will be hosted by the Department of Meteorology and will meet with undergraduates and graduate students in meteorology to discuss recent changes at NWS and professional career opportunities.

The Alumni Fellow Award, sponsored by the Penn State Alumni Association and administered in cooperation with the colleges, is the most prestigious of the association's awards. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.

Penn Staters

Abhay Ashtekar, holder of the Eberly Family Chair in Physics and director of the Center for Gravitational Physics and Geometry, recently presented the 1995 Andrewski Lectures in Mathematical Physics in Germany. The series consisted of three lectures held at the Humboldt University in Berlin, titled "Non-perturbative Quantum Gravity: Physics Without Space-Time," and four lectures at the University of Leipzig, titled "Mathematical Problems of Quantum General Relativity."

Dr. Ashtekar also presented a theoretical physics seminar at DESY and the University of Hamburg titled "Recent Developments in Quantum Gravity."

Ingrid Blood, associate professor of communication disorders in the College of Health and Human Development, has been elected a Fellow of the American Speech-Language-Hearing Association.

Fellowship is one of the highest forms of recognition in the ASHA; out of 85,000 ASHA members, fewer than 800 have been awarded Fellow status.

Thomas Breuning, assistant professor of agricultural and extension education, presented a three-day seminar on crop planning for a new extension system being developed in Smolensk, Russia.

Mary Ann English, instructor in nursing and coordinator of the bachelor's degree program at Penn State New Kensington Campus, has been awarded the Martha I. Clark Scholarship from District Six of the Pennsylvania Nurses Association.

Peter Ferretti and **Michael Orzolek**, both professors of vegetable crops, received an Extension Educational Aids Award from the American Society for the Horticultural Sciences.

Stephen Jones, associate professor of forest resources, has been appointed to the National Support Team for Cooperative Extension. The team assists states in starting new programs in natural resources and environmental management.

Philip A. Klein, professor of economics, gave a series of

invited lectures in Beijing on measuring and forecasting business cycles in the United States. The lectures were sponsored by China's State Statistical Bureau, Department of Integrated Statistics for the National Economy. He also was guest lecturer at the University of Peking in Beijing, discussing the current state of macroeconomics in the West.

Bernard Tittmann, Schell Professor in engineering science and mechanics, recently gave invited lectures at two international conferences.

He spoke on "Ultrasonic Sensors for Process Monitoring and Control" at the International Conference on Acoustics and Ultrasonics in Gdansk, Poland. He gave an invited presentation on "High Temperature Applications of Ultrasonics and Acoustic Emissions" for the Advanced School on Sensors for Process Monitoring and Quality Control, sponsored by the American Association for Non-Destructive Testing, in Alberta, Canada.

Spanier

continued from page 1

agricultural community is a historic expression of these themes and that partnership continues to demonstrate its value for the future even as these traditions evolve to meet changing needs."

The challenges of keeping Pennsylvania's diverse agricultural and agricultural industries competitive in today's marketplace requires strong support from every facet of Penn State's land grant mission of teaching, research and service, he added.

"My goal is to make Penn State the best of the land grant universities by balancing our missions to achieve simultaneous excellence in undergraduate education, graduate education, research and creative activity, technology transfer and the promotion of economic development, continuing and distance education, cooperative extension, public and professional service, promotion of health and human development and the cultural advancement of the state," Dr. Spanier said. "I am not a believer in choosing sides between these many missions that Penn State has. We have them, we've always had them and we lead the nation in our ability to integrate all of these missions simultaneously and that is what we are going to continue to try and accomplish."

He stressed the important role the College of Agricultural Sciences has to play in nearly every one of these areas.

He told the audience — that included farmers from across the state, Secretary of Agriculture Charles Brosius, members of the University's Board of Trustees, House of Representatives, Senate and county commissioners — that "the University's capacity to support the agricultural community has been constrained in recent years by the fact that state funding for agricultural research and extension has not been increased since 1990, in effect reducing our ability to do what we do and provide our services."

"We really must have a dialogue about what we expect to see happening to the future of agriculture in this state. The support of the College of Agricultural Sciences is very high on my list of priorities. We need to find a solution to the flat budgets for Cooperative Extension Service and our agricultural research programs."

Dr. Spanier cited agricultural extension and research as the two most important things to focus on in the college for the future promotion of economic development in the state.

"The return on this investment will be progress — more effective methods, better management, new products and new markets for Pennsylvania's food, farm and forest industries," he said.

Gov. Ridge called Pennsylvania's agriculture "a keystone to the future of economic development. Research holds the key to the future of our competitiveness and we want to win the competition. We must move forward the Pennsylvania agricultural community as quickly as we can."

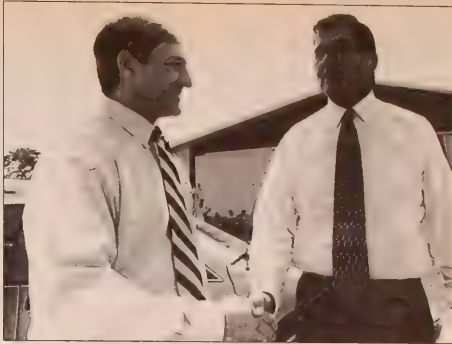
"People must understand that farms and farmers are businesses and we must help you become more profitable."

He lauded Ag Progress Days as a showcase of agricultural excellence, techniques and technologies. Agriculture involves all Pennsylvanians because everyone is a consumer of the products grown and made on the farms in the state, Gov. Ridge said. This year marks the 100th anniversary of the founding of the state's Department of Agriculture.

"We can look back with pride on the accomplishments and progress in this state. Our agriculture is the envy of the world," Gov. Ridge said.

The governor said that in order to make the agricultural community more economically sound, the state needs marketing strategies, new export strategies and to support continued research in agriculture.

Before the luncheon Drs. Hood and Spanier visited the exhibit building, which



Dr. Spanier greets Gov. Tom Ridge during their Aug. 16 visit to Ag Progress Days

Photos: Greg Grieco

Spanier's schedule filling up

Although his first official day in office is not until Friday, Sept. 1, President **Graham Spanier** has been meeting groups across campus, in the community and making news across the state.

This evening, he and his wife **Sandra** host a picnic for new faculty at the Russell E. Larson Ag Research Center at Rock Springs, welcoming about 300 people to the University and the community. Yesterday, he spent the day at Stone

Valley at Encampment, meeting with student and community leaders and other University faculty and administrators. The annual Encampment gives new student leaders a chance to get to know key University and community officials and to exchange ideas and priorities for action during the coming academic year.

Monday, Dr. Spanier joined the Blue Band and the Nittany Lion in cheers and songs at the "Be a Part from the Start" pep rally for new University Park students in Rec Hall — many of whom he had a chance to meet at the "Rock the Block" orientation program for freshmen in the Greenberg Sports Complex August 18.

Last week's schedule featured the College of Agricultural Science's Ag Progress Days, where

he met with alumni, legislators and agricultural industry leaders from across Pennsylvania and neighboring states.

The Spaniers made headlines this month with their announcement of a \$100,000 pledge to support academic programs at Penn State, saying, "Penn State has an impressive record of giving, and I am pleased to follow in this tradition, hoping my gift will stimulate even more alumni, colleagues and friends of the University to support the University's programs."

Reporters from the *Philadelphia Inquirer*, *Pittsburgh Post-Gazette*, *Harrisburg Patriot-News* and other newspapers and radio and television stations from around the state have visited campus for interviews with Dr. Spanier to learn about his interests and priorities for the coming year.

In addition to regular meetings with faculty, staff and students, a number of special events are coming up on his calendar next month, such as attending the opening home football game against Texas Tech on Sept. 9, speaking at the opening session of the Faculty Senate on Sept. 12, and addressing the Board of Trustees at their regular September meeting.

Also on the 15th, Dr. Spanier will give a State of the University Address for the entire community. Governor **Tom Ridge** and the Board of Trustees will attend, and he is inviting all faculty, students staff and area residents to attend as well. A reception will follow at the HUB.

Later in September, Dr. Spanier will begin an ambitious year-long tour of the state with visits to a number of Penn State locations. The tour will include visits with community and business leaders, meetings at high schools, alumni receptions, media briefings, as well as activities on each campus with faculty, staff and students.



The president shares a laugh with the media.

this year highlights Penn State's turf industry, the youth and farm building and the Pasto Museum.

Dean Hood and Gov. Ridge did a site tour after lunch, stopping at several exhibits, commercial displays and special afternoon activities.

— Kimberley Yarnell Bicerly

Appointments

Agronomy head named

Steven L. Fales has been appointed head of the Department of Agronomy in the College of Agricultural Sciences. In this position, he will be responsible for the coordination of resident instruction, extension and research in the department, which employs more than 70 professionals. The department also maintains a 340-acre experimental farm with irrigation facilities, 50 acres of irrigated land for turfgrass research and breeding, and a research farm in southeastern Pennsylvania.

Dr. Fales, professor of crop science, came to the University in 1985 as an associate professor of crop science. Before that he was an assistant professor of agronomy from 1982-1984 at the University of Georgia, and from 1980-82 served as a post-doctoral research fellow there. From 1977-80, he was a research fellow, supported by the Purdue Research Foundation, at Purdue University in the Department of Agronomy. Dr. Fales began his career at the University of Rhode Island in 1976 as a research associate in the Department of Plant and Soil Science.

In the past, Dr. Fales' research has focused on forage systems and their growth and management, simulation modeling of pasture ecosystems, and the use of fungi to improve rumen digestibility of crop residues. He has participated in several regional research projects and is co-founder and co-director of the Penn State Grazing Research and Education Center established in 1993.

He served as president of the Northeast Branch of the American Society of Agronomy (1994-1995); secretary of the American Forage and Grassland Council (1991); and president of the Pennsylvania Forage and Grassland Council (1989). In addition, he was a member of numerous college committees, on the advisory board of the *Penn State Agriculture* magazine, served as associate editor of the *Agronomy Journal* from 1987-1990 and was a 1994 judge at the Graduate Research Exhibition.

Dr. Fales is a member of the American Society of Agronomy, Crop Science Society of America and the American Forage and Grassland Council, from which he received a merit award in 1994.

Leader appointed for Department of Architecture

Michael E. Fifield, associate professor of architecture and director of the Joint Urban Design Program of the College of Architecture and Environmental Design at Arizona State University, has been named head of the College of Arts and Architecture's Department of Architecture. He assumed the position on Aug. 15.

Under Professor Fifield's leadership, Arizona State's Joint Urban Design Program expanded to address urban and neighborhood design issues

throughout the Phoenix area, as well as providing central academic coordination in urban design for the School of Architecture, School of Planning and Landscape Architecture. In addition, he secured permanent research funding from Scottsdale, Ariz., for future urban design projects. Through these efforts the focus of the Joint Urban Design Program moved from community outreach to applied and theoretical research.

While at Arizona State University, Professor Fifield, as coordinator of the graduate program, oversaw the transition of the five-year bachelor of architecture program to a six-year master of architecture program. The Arizona State University master of architecture program has been ranked among the top 20 programs in the United States. His research findings and recommendations have been published in professional journals and he has presented papers at national and international conventions and conferences. Professor Fifield also has a very strong record on funded research, as well as directing and/or participating in AIA design charrettes, both locally and nationally. His NEA-funded publication *Metropolitan Canals: A Regional Design Framework* received a *Progressive Architecture* magazine National Research Award Citation as well as an Award of Merit from the Valley Forward Association and a first-place award in the Best Project Category of the Arizona Planning Association state awards program.

Professor Fifield holds a bachelor of arts in architecture degree from the University of California, Berkeley, and a master of architecture from the University of California, Los Angeles. He is a member of the American Institute of Architects and the American Planning Association; a registered architect in Arizona and Idaho; and a planner certified by the American Institute of Certified Planners.

Manager comes on board

Rick Kerns has been appointed food and beverage manager of The Nittany Lion Inn.

His area of responsibility includes overseeing operations in the restaurants, the banquet and catering department, and the kitchen. He will guide the development of menus, products, services, and associated pricing for food and beverage areas. His broader responsibility is to assess food and beverage department strategic plans, to include preparation of operational budgets, project/capital budgets, continuous quality improvement, and diversity plans.

Mr. Kerns graduated with a degree in hotel, restaurant, and institutional management from Penn State in 1980. He was employed by Marriott Corporation, Hotel Division from 1980 to 1983. In 1983, he joined the MMI Hotel Group and was named director of food and beverage at The King And Prince

Beach and Golf Resort in St. Simons, Georgia. He was named MMI Group "Food & Beverage Director Of The Year" three times during his tenure.

In 1994, Mr. Kerns joined Motel Properties, Inc. and was named corporate food and beverage director.

Smear College welcomes program coordinator

Robin L. Stevens has been appointed internship program coordinator for The Smear College of Business Administration. Ms. Stevens joins The Smear

College staff after two years as a conference planner with Continuing and Distance Education. She succeeds Michele R. Sowko.



Robin L. Stevens

In her new role, Ms. Stevens will be responsible for managing a rapidly growing operation which serves both graduate and undergraduate students. Figures show an increasing number of companies are seeking out Smear students with internship opportunities, while more and more students are looking for ways to strengthen their resumes with valuable work experience.

Ms. Stevens joined the University in 1993 after 16 years with the Child Development and Family Council of Centre County. As a program administrator with that agency, she was responsible for developing and innovating programs to benefit local families, children and professionals.

While with C&DE, she developed new conference programs and improved existing ones. Markets for these programs spanned the academic, medical, corporate and governmental sectors, and were geared for students, youth and adult participants.

She also has experience as a consultant to businesses and human service agencies; workshop presenter; events manager for a Hilton Head Island-based sports marketing and event management company, and coordinator for nationally televised professional sporting events.

Ms. Stevens has served on the board of directors of the Infant Evaluation Program and was co-chair of the Local Interagency Coordinating Council for Early Intervention. She is a member of the National University Continuing Education Association. She earned a bachelor of science degree in individual and family studies from Penn State in 1977.

25-year Awards



Observing 25 years of service at the University are (from left) Anna M. Baughman, staff assistant VI, and Susan J. King, staff assistant VIII, both in the College of Education; Nancy M. Cline, dean, University Libraries, University Park; Rose Schwaringer, staff assistant to the general manager at WPSX-TV; and Frank J. Swetz, professor of mathematics and education, Penn State Harrisburg.

News in Brief

Children's drama classes

MetaStages, an outreach program of the College of Arts and Architecture Department of Theatre Arts, is accepting registration for fall drama classes for children. The classes will be held at the Paul Robeson Cultural Center on the University Park Campus.

MetaStages offers classes after school and Saturdays for students in grades K-12. Weekly sessions will begin Sept. 14.

MetaStages provides children and youth with performance training from professionals in acting, voice, movement, mime and masks as they rehearse and perform folk plays, songs and dances from various countries.

Class size is limited. For more information, please call Joann Leonard, MetaStages director, at 867-8390.

New journal in materials sciences founded

A new journal offering quicker publication of research in the materials sciences for scientists with a track record has been initiated by Rustum Roy, Evan Pugh Professor of solid state, professor of geochemistry and professor of science, technology and society. The journal is published by World Scientific, an international publisher.

Innovations in Materials Research, with Dr. Roy as editor-in-chief and based at the Intercollege Materials Research Laboratory at University Park, will focus on papers which reflect genuine innovation and unexpected discoveries in core areas of materials research. An author of an article submitted for publication must be a scientist with an established peer-reviewed track record in the field. The suitability of the subject matter of the paper and its innovativeness will be determined by one of 20 editors affiliated with the journal.

For more information about the journal, its editors, criteria for submission of manuscripts or subscription rates contact Dr. Roy or Kathy Moir, assistant editor, at E-mail IMR@ALPHA.MRL.PSU.EDU, or by writing to 102 Materials Research Laboratory, University Park, Pa. 16802.

September Blood Drives

Several University faculty, staff and student groups, in cooperation with the American Red Cross-Centre Communities Chapter, will hold the following blood drives during September:

Sept. 5	Naturium	noon-5 p.m.
Sept. 6	Kern Center	10 a.m.-4 p.m.
Sept. 7	Wesley Center	noon-6 p.m.
Sept. 8	HUB Ballroom	10 a.m.-4 p.m.
Sept. 11	Athert Hall	1-7 p.m.
Sept. 12	Pollock Union	1-7 p.m.
Sept. 13	Wagner Bldg.	10 a.m.-4 p.m.
Sept. 14	Findlay Union	1-7 p.m.
Sept. 14	Ag Admin.	10 a.m.-4 p.m.

Adult learners

The Center for Adult Learner Services is sponsoring a program titled "On Campus Living: Making the Transition," for 7 p.m. Tuesday, Aug. 29, in Warnock Commons. The program will focus on:

- Panel of adult learners
 - University services available
 - Connecting with others on campus
- If you are interested in attending or would like more information, please contact the Center for Adult Learner Services at 863-3887 or stop by 323 Boucke.

New consortium

Penn State has been invited by the academic community to be a founding member of a significant new initiative focusing attention on the nation's rapidly developing reliance on digital geographic information. The purpose of the consortium of universities is to aid the academic community's interests in geographic information science in such areas as research funding, curriculum development, access to software, and community wide projects.

Donna Pequet, Department of Geography, and Todd Bacostow, University Libraries, are beginning organizational activities. For more information about participating in this initiative, please contact Dr. Bacostow at 865-0141 or by e-mail at bacostow@gis.psu.edu. All those who work with Penn State activities involving geographic information research and education are encouraged to participate.

Fall library hours

University Libraries located on the University Park Campus will maintain the following schedules during fall semester Aug. 23 through Dec. 16.

■ PATTEE LIBRARY

The Arts Library, Documents/Maps, General Reference, Lending Services, Life Sciences, Periodicals, and Reserve Reading Room/Microforms will be open Monday through Thursday from 7:45 a.m. to midnight; Friday, 7:45 a.m. to 9 p.m.; Saturday, 8 a.m. to 9 p.m.; and Sunday, noon to midnight.

Interlibrary Loan, Photoduplication, Historical Collections/Labor Archives, and the Rare Books Room will be open Monday through Friday from 8 a.m. to 5 p.m. and closed Saturday and Sunday.

The Penn State Room/University Archives will be open Monday through Friday from 9:30 a.m. to 5 p.m.; Saturday from 9 a.m. to 1 p.m., and closed Sunday.

The Music Library Listening Room will be open Monday through Thursday from 9 a.m. to 11 p.m.; Friday, 9 a.m. to 6 p.m.; Saturday, noon to 6 p.m., and Sunday, noon to 11 p.m.

■ BRANCH LIBRARIES

The Architecture Library, Earth and Mineral Sciences Library, Education Library, Engineering Library, Mathematics Library, and Physical Sciences Library will be open Monday through Thursday from 7:45 a.m. to 11 p.m.; Friday, 7:45 a.m. to 9 p.m.; Saturday, 8 a.m. to 9 p.m.; and Sunday, noon to 11 p.m.

Pollock Library will be open 24 hours, seven days a week.

On Labor Day, Sept. 4, Pattee Library will be open from noon to midnight, and Branch Libraries from noon to 11 p.m.

For more information on hours of library service, call (814) 865-3063 or type HELP HOURS when using the Library Information Access System (LIAS).

Walkway closed

The walkway from the Nittany Lion Shrine and the Recreation Building parking lot to the Nittany Lion Inn is closed for the installation of sewer lines until Friday, Sept. 22. Please use the walkway near Kern and Carpenter buildings.

BOOK SHELF

When trapped in conversations about trade sanctions or the Fed, many folks either sheepishly admit to economic illiteracy or hide behind econobabble drawn from the nightly news.

But a new book by Jacob De Rooy titled "Economic Literacy: What Everyone Needs to Know About Money & Markets," says an investment by such baffled folks in understanding the economy today can pay off in the future.

In his book from Crown Publishers, Dr. De Rooy, associate professor of economics with the School of Business Administration at Penn State Harrisburg, covers potentially daunting territory with user-friendly language, real world-oriented vignettes, and a touch of humor, and offers answers to puzzling questions.

Along with mini-lessons designed to help the reader master important distinctions in economic terminology, Dr. De Rooy offers examples of how the economic factors in question have played a role in U.S. history.

For teachers, the best way to deter discipline problems is to be the most effective instructor they can be, according to James Levin, affiliate assistant professor of education, and James F. Nolan, associate professor of education, and co-authors of *Principles of Classroom Management: A Hierarchical Approach* (Allyn-Bacon).

The days are over when the teacher commanded respect simply by being the teacher," Dr. Levin said.

In the second edition of this book, due out in November, Drs. Levin and Nolan point out that effective classroom management is based on two principles: prevention of discipline problems and the fact that teachers cannot control anyone's behavior but their own. All teachers can really do, is influence a student's choice of behavior by changing their own behavior. This means giving students the opportunity to control themselves through a variety of techniques.

When disruptive behavior occurs in the classroom, teachers must avoid taking it personally. The authors describe a "hierarchy of responses" teachers can display for managing students. These responses help maintain a healthy equilibrium between the teacher's self-esteem and the student's self-esteem.

A book, written by Susan Merrill Squier, the Julia Gregg Brill Professor in women's studies and English, brings feminist criticism to bear on the vision of human reproductive technology — from artificial insemination to surrogate motherhood to cloning — portrayed by an influential group of 20th century British writers, physicians and scientists.

In *Babies in Bottles*, published by Rutgers University Press, Dr. Squier examines the literary and popular science writings of Julian and Aldous Huxley, J.B.S. Haldane, Naomi Haldane Mitchison, Robert Edwards, Patrick Steptoe and James D. Watson, to find narratives, fantasies and images — especially the image of babies in bottles — that expose the hidden motivations that shaped contemporary reproductive technologies.

She uncovers a cultural and imaginative history behind our contemporary reproductive technologies — a history in which they were attacked, debated, shaped, even planned for by a range of writers and scientists, both feminist and anti-feminist, both female and male.

The Arts

AT PENN STATE

"Emotional Reactions" at Pattee Library

Glenn Liddy is holding an exhibition of his paintings titled "Emotional Reactions" in Pattee Library's East Corridor Gallery through Aug. 31.

"My goal in my artwork is to make an emotional connection with my audience through telling the stories of people with whom I've been close," Mr. Liddy said. "I am interested in the common experiences people have in life, as well as the uniqueness of the lives of these people."

Mr. Liddy has been living in State College for 10 years and has been painting for the past six years. He has shown exhibitions at Pattee Library, the Penn State DuBois Campus and in New York City.

Stained glass and pottery exhibit

Shahnaz Lotfi will be holding an exhibition of her pottery and stained glass in Pattee Library's Learning Services Gallery through Aug. 31.

Ms. Lotfi has been working in ceramics for many years. Most of her work is influenced by artistic styles of ancient Persia.

Ms. Lotfi, who has been living in this country for about eight years, is from Isfahan, Iran, and went to an Iranian school in Kuwait. She has shown her work at the Art Alliance and the HUB. Her work has also been featured at the Artisan Connection and the Tower of Glass.

OBITUARIES

Elwood C. Tito, foreman, Maintenance and Operations, Hazleton Campus, from May 15, 1972, until his retirement May 25, 1983; died June 26 at the age of 82.

Olivia T. Wise, nutrition aide supervisor, College of Agricultural Sciences, from July 1, 1977, until her retirement Sept. 1, 1984; died July 24 at the age of 78.

George S. Zoretich, professor of art, College of Arts and Architecture, from July 1, 1952, until his retirement Aug. 1, 1984; died July 9 at the age of 77.

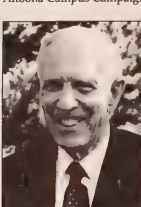
CARPPOOL

Would like to carpool from Clearfield to University Park. Work hours are 7:30 a.m.-4:30 p.m., Monday through Friday. Call **Connie** at 865-0317 or 765-3738.

Private Giving

Poultry farm owner pledges \$100,000 to Altoona Campus technology campaign

A \$100,000 gift annuity from **Robert R. Parks**, owner of Parks Poultry Farm, has been added to the Penn State Altoona Campus Campaign for Advanced Technology.



Robert R. Parks

Mr. Parks, 85, was raised in Juniata Gap — a section of Altoona — on the Parks Poultry Farm founded by his grandfather in 1889. After completing his B.S. in poultry husbandry from Penn State in 1931, he began breeding different characteristics into the poultry raised on the farm. His chicks were in demand throughout the country and eventually shipped worldwide. Mr. Parks traveled widely for his business, forging personal and busi-

ness ties throughout the world. During the 1970s, he helped establish a poultry breeding business in Indonesia, which still carries the Parks Poultry Farm name and breeding line.

"My donation to the campus is a memorial to my wife Jane," Mr. Parks said. "I had considered a major gift to the campus for many years, and shortly after Jane's death last fall things came together so I was able to provide a memorial for her. I have an affinity for this campus, since I used to swing on the grapevines over the creek on this property, long before it was even the Irvyds Amusement Park. I am pleased to think that future students will benefit from Jane's memory."

An active member of the Altoona Campus Advisory Board since 1952, Mr. Parks is one of the longest tenured members of the board. In Altoona, he has also been active in Kiwanis and the Jaffa Shrine.

Mr. Parks and his wife raised four children, three girls and a boy, and he now has 11 grandchildren.

Promotions

Staff

Elizabeth N. Ackerman, training, education and development specialist at The Hershey Medical Center.

Ann M. Alters, staff assistant VIII in Business Services.

Sherly A. Ayres, accountant assistant in College of Engineering.

Kimberly K. Beard, orthopedics billing coordinator at The Hershey Medical Center.

Garry L. Burkle, director, enrollment services in Office of The President.

Kimberly A. Darlington, staff assistant VI in Housing and Food Services.

Carl T. Dowling, customer service representative in Office of Physical Plant.

Edward A. Eagles, microcomputer systems consultant in Computer and Information Systems, Center for Academic Computing.

Tammy J. Farr, staff assistant VI at The Hershey Medical Center.

Darrell L. Flood, human resources coordinator I in Housing and Food Services.

C Cheryl P. Frank, staff assistant VIII in Office of The President.

Sandra M. Gesford, staff assistant VII at The Hershey Medical Center.

Sharon A. Hedlund, staff assistant V at Penn State Erie, The Behrend College.

Anthony N. Hepner, staff assistant V at The Hershey Medical Center.

Denise A. Hoffman, staff assistant VI in Division of Development and University Relations.

Melanie P. Todd, technician, Research, at The Hershey Medical Center.

Kermit L. Tressler, supervisor, second shift operations, Office of Physical Plant.

Mary Beth V. Tsikalas, financial officer V in Corporate Controller's Office.

John I. Wagner, systems analyst in Computer and Information Systems, Center for Academic Computing.

Carol L. Walker, staff assistant IV, Office of Human Resources.

Aimee J. Watson, staff assistant IV, Office of Human Resources.

Angela L. Weaver, employment assistant, The Hershey Medical Center.

Stephen C. Weirs, supervisor, Dining Room, at The Nittany Lion Inn.

William V. Welch, assistant manager, Operations, Computer and Information Systems, Telecommunications.

Linda R. Whitlock, staff assistant VII in Division of Development and University Relations.

Elizabeth J. Will, staff assistant VII in College of the Liberal Arts.

Gary L. Wizar, senior cardiovascular technician, The Hershey Medical Center.

Margaret M. Wlazkowski, accounting and student activities assistant at Penn State Erie, The Behrend College.

Suzanne K. Worth, staff assistant VII in Student Affairs.

Barbara J. Wright, administrative assistant I in The Smeal College of Business Administration.

Cheryl A. Wolf, administrative assistant II, The Hershey Medical Center.

Kimberly J. Zimmerman, staff assistant VI, Research and Graduate School.

Technical Service

Robert D. Campbell, power plant worker, Office of Physical Plant.

Deborah E. Griffin, operator B, Centralized Copy Center, Business Services.

Jeffrey L. Hubler, power plant worker, Office of Physical Plant.

John E. Keller, heating, (HVAC) ventilation, air conditioning mechanic, Office of Physical Plant.

Bonnie L. Knapp, escort service aide, The Hershey Medical Center.

Jodie E. Lair, second cook, Main Kitchen, at The Nittany Lion Inn.

Edgar L. Lutz, general construction and repair mechanic, Applied Research Lab.

Barry D. Koons, central processing aide, The Hershey Medical Center.

Terry E. Lair, second cook, Main Kitchen, at The Nittany Lion Inn.

Terry L. Prisk, laundry worker/truck driver, Intercollegiate Athletics.

Daniel Rivera, electrician A, Office of Physical Plant.

Michelle E. Shindel, anesthesia technician, The Hershey Medical Center.

Sharon L. Summy, patient service aide at The Hershey Medical Center.

Joseph J. Tekely, groundskeeper, Landscape A, Office of Physical Plant.

Kelly M. Tomchick, residence hall utility worker, Housing and Food Services.

Milford R. Woods, maintenance worker, Area Landscape, Office of Physical Plant.

Awards

Two scholars awarded Fulbright Foundation chairs

Two University faculty members have been awarded special chairs for the 1995-96 academic year from the Fulbright Foundation. The special Fulbright Chair assignments are for established scholars with a prominent record of accomplishment.

Award recipients are:
Philip H. Baldi, professor of linguistics and classics, the J. William Fulbright Distinguished Lecture Chair in linguistics at the University of Naples, Italy.

Dale Jacquette, associate professor of philosophy, the J. William Fulbright Distinguished Lecture Chair in the contemporary philosophy of language at the University of Venice, Italy.

Dr. Baldi, a graduate of the University of Scranton, received M.A. and Ph.D. degrees in linguistics from the University of Rochester.

He joined the University faculty in 1973, offering courses in general and historical linguistics, Latin and Sanskrit. He attained the rank of professor in 1981 and was named director of the Linguistics Program, a position he held until 1992. From 1993-1994, he served as head of the Department of Classics.

He has held visiting professorships at the University of Hawaii, University of Amsterdam and at Stanford University.

Throughout his career as a linguist and classicist,

Assistant professor earns Fulbright lecture grant

Patrick J. Moylan, assistant professor of physics at the Penn State Abington Oceanic Campus, has been awarded a Fulbright grant to lecture on functional analysis and quantum mechanics in the Czech Republic.

Dr. Moylan, one of approxi-

mately 2,000 U.S. grantees, studied physics and mathematics at the University of Texas at Austin and MIT.

He earned his Ph.D. in physics and joined the University faculty in 1987.

Before coming to Penn State,

he was an assistant professor at St. Louis University.

Dr. Moylan's field of expertise is mathematical physics, in particular, harmonic analysis and representation theory of Lie groups and Lie algebras and their q-deformations.

he has held a number of professional offices, including editorships on two linguistics journals, *General Linguistics* and *Diachronica*.

In 1978 he was awarded Penn State's Class of 1933 Award for Outstanding Contributions to the Humanities.

Dr. Jacquette, a Phi Beta Kappa graduate of Oberlin College, received his M.A. and Ph.D. degrees in philosophy from Brown University.

He joined the University faculty in 1986.

He is author of two books, *Philosophy of Mind* (Prentice Hall/ Foundations of Philosophy Series, 1994) and *Meinongian Logic: The Semantics of Existence*

and *Nonexistence* (Walter De Gruyter & Co., in press), and a number of articles in professional journals.

Dr. Jacquette was awarded an Alexander von Humboldt-Stiftung Research Fellowship for 1989-1990, and in 1993 received the Melvin and Rosalind Jacobs University Endowed Faculty Research Fellowship in the Humanities at Penn State.

He serves on the editorial board of *The Journal of Speculative Philosophy* and is a member of the American Philosophical Association, Philosophy of Science Association, Society for Exact Philosophy, Hume Society and the American Society for Aesthetics.

Staff assistant cited for dedication to office

Martha R. Bowman, staff assistant IX in the Corporate Controller's Office, has received the 1995 Charles R. Chambers Memorial Award.



Martha R. Bowman

The award was established in 1979 by the family and friends of the late Mr. Chambers, director of accounting at the University from 1967 to 1977. It honors employees of the Corporate Controller's Office who "exhibit a conscientious and dedicated attitude toward their professional responsibilities above that normally expected or required."

Ms. Bowman

began her employment with the University in 1976 in the Educational Opportunity Program Office; from 1978 through 1991, she was an auditing clerk in the Internal Auditing Department and in May 1991, she was promoted to her current position in the Corporate Controller's Office.

National Institutes of Health honors professor for distinguished service

Capt. Robert Todd Simpson, Verne M. Willaman Professor of molecular biology, has been honored by the National Institutes of Health with the Distinguished Service Medal, the highest award given to commissioned officers of the Public Health Service.

According to the NIH, Capt. Simpson was selected for the award for his "seminal contributions in understanding the role of chromatin structure in mediating gene expressions."

Capt. Simpson has been an international leader for more than 20 years in research on the structure of chromatin, a protein-DNA complex found in the nucleus of cells, and its affect on gene regulation.

Before joining the Penn State faculty earlier this year, Capt. Simpson was chief of the NIH Laboratory



Robert Todd Simpson

of Cellular and Developmental Biology at the National Institute of Diabetes and Digestive and Kidney Diseases and cochairman of the Department of Biochemistry of the Foundation for Advanced Education in the Sciences.

His research, published in more than 95 papers, has established numerous precedents in the discovery of important structure/function relationships in chromatin proteins.

During the last several years, Capt. Simpson's laboratory has used yeast genetics to further explore chromatin function, resulting in what some call "the first and best evidence of the role of nucleosome-positioning in the regulation of gene transcription and DNA replication in vivo."

Capt. Simpson received his B.A. with high honors as a Phi Beta Kappa graduate of Swarthmore College in 1959.

He was an Alpha Omega Alpha graduate of Harvard Medical School, where he received an M.D. degree (cum laude) in 1963. He earned a Ph.D. in biological chemistry at Harvard University in 1969, and then joined the U.S. Public Health Service.

He was an active researcher and administrator at the NIH from 1969 until he came to Penn State.

Associate professor receives Hinkle Society research award

Rakesh Kumar, associate professor of medicine and cellular and molecular physiology in the College of Medicine, has been named recipient of the Hinkle Society's Outstanding Investigator Award for 1995.

The focus of Dr. Kumar's research is to understand the regulation of cellular proliferation of human tumor cells by cytokines, such as interferons and growth factors, by delineating the possible mechanistic roles of regulatory negative and positive cellular genes and their protein products, and to study signal transduction pathways.

He has studied the mechanism of action of interferons, a group of small cellular-derived polypeptides that have distinct antitumor and antiviral activities, for more than a decade.

Dr. Kumar earned his Ph.D. in biochemistry from All India Institute of Medical Sciences, New Delhi, India and his M.S. in chemistry from Rohilkhand University, India. He was an associate researcher in the program in molecular biology and then a faculty member at Memorial Sloan-Kettering Cancer Center.

He joined the College of Medicine in 1992, and is a member of the graduate program in cellular and molecular physiology and the NIH training program in endocrinology, diabetes and metabolism.

Dr. Kumar was awarded lifetime membership in *Anticancer Research*, an international cancer journal at All India Institute of Medical Sciences, India, and while at Hershey, was awarded an American Institute for Cancer Research grant and the ASIOA 1995 Sudhir Gupta Young Scientist Award.

He is a member of the American Association for Cancer Research, American Association for the Advancement of Science, American Society of Virology, International Cytokine Society, American Society for Biochemistry and Molecular Biology and New York Academy of Sciences.

The Hinkle Society is an organization of full professors in the College of Medicine and has given the Hinkle award for 12 years. The Hinkle Outstanding Investigator is chosen by ballot vote of the members.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, August 25

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Michael Arthur on "The Ups and Downs of a Teltite Gas: CO₂ Through the Geological Ages."

Saturday, August 26

Wildlife Arts Festival, 10 a.m.-7 p.m., Shaver's Creek Environmental Complex and Raptor Center. For more information, call 863-2000.

Sunday, August 27

School of Music, 8 p.m., Recital Hall. Mark L. Lusk, trombone.

Monday, August 28

Leonhard Center/College of Engineering, 6:30 p.m., 112 Walker Bldg. Mark Bryan on "The Artist's Way and the Artist's Way for Business."

Tuesday, August 29

The Learning Factory and Engineering Shop Services Open House, 1-5 p.m. Located on Railroad Ave., near the new Applied Research Bldg.

Friday, September 1

■ Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. John Western on "Sust Data, Hard Work: Barbarian Londoners Encounter an English-American Ethnographer."

SEMINARS

Friday, August 26

Carbon Research Center/Fuel Science, 9 a.m., C213 Coal Utilization Laboratory, E.A. Hentz on "The Graphitization Process."

Tuesday, August 29

Chemistry, 4 p.m., 8 Mueller Lab. Andrew Ewing on "Neurotransmitter Excitotoxicity: Is It Quantal? Is It Restricted to the Synapse? Can It Be Pharmacologically Manipulated?"

Wednesday, August 30

Gerontology Center, noon, 110 Henderson Bldg. Living Center. Steve Zarli, Ella Kwise, Shannon Jarrott, Anne Edwards, Kristine Robinson, Diane Spokus, Julie Grant and Sandra Simmons on "Aging in a Welfare State."

Thursday, August 31

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. Clifford Will on "PPN Versus Computer Calculations for Inspiring Binaries."

CONFERENCES

Public Radio

WPSU-FM 91.5

- "Morning Edition," Mon.-Fri., 6-9 a.m.
- "Performance Today," Mon.-Fri., 9-11 a.m.
- "All Things Considered," Mon.-Fri., 5-7 p.m.; Sat.-Sun., 5-6 p.m.
- "Weekend Edition," Sat. & Sun., 8-10 a.m.
- "Fresh Air with Terry Gross," Mon.-Fri., 4-5 p.m.
- "Odyssey Through Literature with S. Leonard Rubenstein," Weds., 7 p.m.
- "Car Talk," Fri., 7 p.m. and Sun., 6 p.m.
- "Living On Earth," Mon., 7 p.m.
- "Piano Jazz with Marion McParland," Mon., 8 p.m.
- "Theatre & Sharmrock," Sun., 4 p.m.

EXHIBITS

Palmer Museum:

- "Psalms," non-objective paintings by West Coast painter John McDonough, through Oct 1
- "Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.
- Reflects an international perspective

Research funds announced for five faculty

Five faculty members, four from the College of Arts and Architecture, have been awarded funds from the Penn State Fund for Research to provide additional resources to help them continue their scholarly activities. Recipients for the 1995-96 academic year include:

— **Daniel D. Fritton**, professor of soil physics, College of Agricultural Sciences, for his work in "Mechanics and Properties of Soil Materials;

— **Julie Heffernan**, assistant professor of art, College of Arts and Architecture, to continue her work on a series of paintings;

— **Gerald Lang**, professor of art, College of Arts and Architecture, for his work in "Images Created with Photography and the High-Resolution Computer;"

— **Leslie Leupp**, professor of art, College of Arts and Architecture, for work in "Jewelry Arts Institute: Ancient/Classical Studies Research;" and

— **Sally McCorkle**, assistant professor of art, College of Arts and Architecture, for her continued work in "Objects as a Place for Dialogue: The Influence of Technology on our Experiences of Exchange and Objects."

The fund, created in spring of 1992 by President **Joab Thomas**, is a source of additional support for the research activities of tenure-track faculty who have greater teaching responsibilities. The awards, determined competitively from eligible applicants, cover critical items in a project expense budget not otherwise covered from other sources, and typically do not exceed \$1,500.

CONSERVATION



C O R N E R

The humble exit sign, it quietly glows at the end of every hallway, in every building, everywhere, all the time. A modern beacon showing the way—so popular



Energy savers

Office of Physical Plant janitorial staff members, Jeff McCloskey and Don Zelenick installing LED exit sign kits.

Photo: Courtesy of the Office of Physical Plant

that there are 2,882 of them on the University Park Campus. They are required by law for all public buildings and they're on 24 hours a day.

Exit signs are normally lit with two, 20-watt incandescent lamps, which doesn't sound like much until you consider the large number of them and the fact that they are on all the time. When you add it all up those little lights consume about 455,000 kilowatt-hours (kWh) per year. Real energy suckers!

The Penn State Campus Energy Committee, a University-wide group chaired by **Douglas Donovan** and **George Schimmel** from the Office of Physical Plant, has just come to the rescue. Last semester the committee replaced all of the 2,882 exit signs on campus with new lighting technology called "light emitting diodes" (LEDs). The LED arrays look something like a pencil with little Christmas lights attached to it, and they only use two watts of electricity instead of 20.

They will reduce our exit sign power consumption from 455,000 kWh a year to just 45,000 kWh a year.

The old incandescent lamps burnt out about twice a year and required many hours of janitorial time to replace. The new LEDs are expected to last for 25 years before they burn out, so we don't need to replace them until the year 2020 and beyond. The entire project cost \$68,000, but will save the University \$70,000 a year when you factor in the yearly labor and energy savings. The payback time will be less than one year and our janitorial staff will have more time to attend to other important duties.

The actual LED installation was accomplished by the University's janitorial staff who received special training for the project.

The next time you think you see the light at the end of the tunnel, take a closer look; it's probably one of our super energy efficient exit signs.

Undergraduate lab to hold Aug. 29 open house

The Learning Factory, a hands-on instructional laboratory at University Park for undergraduate students in all engineering disciplines, will have an open house on Aug. 29 from 10 a.m. to 5 p.m.

The modern facilities for design, prototyping, machining, assembly, test and production of real engineering hardware now available for students interested in design and manufacturing will be on display during the open house. Examples of projects tackled by the product dissection class, injection molding equipment and a Society of Automotive Engineering student designed formula car also will be on display.

The Engineering Shop Services Building also will be open displaying state-of-the-art machining facilities for prototyping and testing. Included will be welding, grinding, woodworking, milling, turning and machining equipment as well as computer aided applications in design and manufacturing.

The Learning Factory and Engineering Shop Services are located on Railroad Avenue, near the new Applied Research Building and behind Halowell Building and the bus station.

LECTURES

Continuous learning is topic of Sept. 13 talk at Nittany Lion Inn

Manuel London, of the State University of New York at Stony Brook, is the 1995 Lydia S. and Samuel S. Dubin Lecturer sponsored by Continuing and Distance Education. He will speak at 4 p.m. Wednesday, Sept. 13, in the Penn State Room of the Nittany Lion Inn on the University Park Campus.

As the 1995 Dubin Lecturer, Dr. London, professor and director of the Center for Human Resource Management in SUNY's Harriman School of Management and Policy, will discuss organizational change, the creation of new jobs and the enhancement of career opportunities. His speech, titled "Redevelopment and Continuous Learning: Hard Lessons and Positive Examples from the Downsizing Era," is based on his years of work in human resources and extensive research in employee development, career programs, human resources forecasting and planning, performance appraisal and change management.

The lecture is free to the public. For more information, contact **Donna S. Queeney** at (814) 863-7752.

Creativity consultant to speak Aug. 28

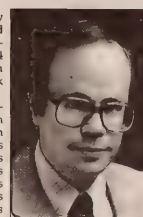
A new age creativity consultant to Wall Street and Hollywood will speak at 6:30 p.m. Monday, Aug. 28, in 112 Walker Building on the University Park Campus.

Mark Bryan, co-founder of the Artist's Way seminars and workshops, will speak on "The Artist's Way and the Artist's way for Business." The lecture/seminar is sponsored by the Leonard Center and the College of Engineering.

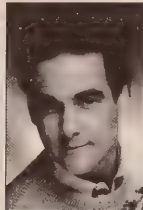
While on campus, Mr. Bryan also will work with a senior mechanical engineering design class on robotics taught by **Katherine Lilly**, associate professor of mechanical engineering.

The Artist's Way is a method to increase creativity and creative productivity for people in all fields, developed by Mr. Bryan and **Julia Cameron**, co-author of a best-selling book on the topic.

The event is open to the public. For more information, contact Ms. Lilly at 863-7273 or **Barbara Bogue** at (814)863-2132.



Manuel London



Mark Bryan

GIS data symposium to be held Oct. 2 at Scanticon

"Digital Spatial Data Infrastructure: Balancing Public Access and Economic Realities," a one-day symposium on issues relating to the access of Geographic Information System (GIS) data, will be held at The Penn State Scanticon Oct. 2.

As local governments expand the development of GIS data and spend millions of dollars to create databases that will contain detailed information about culture, infrastructure and other resources, debate has arisen over whether this information will be accessible free of charge under open-record laws or will be available through fees

only. The symposium will bring together leaders from business, government, libraries and academia to discuss issues and policies relating to the access of GIS data.

For additional information about the symposium, contact **Todd Bacastow** or **Melissa Lamont**, University Libraries, at (814) 865-0141 or (814) 865-0139. To register for the conference, contact **Chuck Herd**, conference planner, Edwards Building, University Park, Pa. 16801-2765; telephone: (814) 863-1738; fax: (814) 865-3749.

Registration forms should be received by Sept. 22.

Ten-part business lecture series continues at Penn State Harrisburg

"The Seven Ps of Profitable Privatization in Latin America," scheduled from noon-1 p.m. Sept. 6, is the topic of the seventh business lecture in this year's 10-part Downtown Harrisburg Lecture Series, "Current Issues in Business."

Sponsored by the School of Business Administration, the lecture will feature **Harvey Arbelaez**, assistant professor of international finance at Penn State Harrisburg. Dr. Arbelaez, who has served as vice president of research and publications of the Business Association of Latin American Studies, director of the Research Center at Esaf University in Colombia, and as co-editor of *Latin American in the 21st Century: The Next Ten Years*, will discuss the structure of the private-public choice debate in Latin America.

The remaining lectures in the series include:

- Oct. 10: "Valuing Diversity: Application and Implications" presented by **Stephen Schappe**, assistant professor of marketing, Penn State Harrisburg;
- Nov. 8: "Cutting Edge Tax Cut Issues," presented by **Janet Harris**, assistant professor of accounting, Penn State Harrisburg; and
- Dec. 5: "Global Information Technology: Opportunity and Trends," presented by **Mehdi Khosrowpour**, associate professor of information systems, Penn State Harrisburg.

To register for any of these lectures, call (717) 772-3590.

Downtown Center hosts Sept. 6 talk

After a decade of support, state governments are reexamining the strategies of their technology development and manufacturing modernization programs. "State Technology and Modernization: A National Perspective," at noon Sept. 6, at the Penn State Harrisburg Downtown Center, will review different state strategies and assess the current state of program evaluation.

The lecture, presented by **Irwin Feller**, director of the Graduate School of Public Policy and Administration and professor of economics at University of Pennsylvania, will include a question-and-answer session.

For more information, contact the Downtown Center at (717) 783-0433.

Gerontology Center schedules fall lunchtime colloquia

A 14-part discussion series will be held this fall as part of the Gerontology Center's "Penn State Colloquia." The following events will be held in Room 101 Henderson Building East from 12-1:15 p.m. Wednesdays, unless otherwise noted:

■ Aug. 30: "Aging in a Welfare State," presented by **Steve Zarit**, **Elia Kwee**, **Shannon Jarrott**, **Anne Edwards**, **Kristen Robinson**, **Diane Spokus**, **Julie Grant** and **Sandra Simons**.

■ Sept. 6: "Slowing Aging by Calorie Restriction," given by **Mark A. Lane**, senior staff Fellow, National Institute on Aging in Baltimore.

■ Sept. 13: "Age-Related Difficulties in Night Driving: Can Visual

Deficits be an Advantage?" presented by **Alfred Owens**, professor and chairman of psychology, **Whitely Psychology Laboratories**, **Franklin & Marshall College**.

■ Sept. 20: "Social Issues/Transplant Decisions," given by **Neil McGlaughlin**, of Delaware Valley Transplant, will be held at 5:30 p.m. in 110 Henderson Building Living Center;

■ Sept. 27: "Mental Health Use Among Elderly Chinese," presented by **Steve Foreman**, assistant professor of health policy administration at Penn State;

■ Oct. 4: "Effects of Aging on Regulation of Temperature and Body Fluids in Hot Environments," given by **W. Larry Kenney**, professor of applied

physiology in Penn State's Noll Lab.

■ Oct. 11: Panel on Research Ethics; ■ Oct. 16-17: "Social Structure and Aging: Impact of Work on Older Individuals," on Monday, Oct. 16 and Tuesday, Oct. 17, at The Penn State Scanticon;

■ Oct. 25: "Aging and Physiological Performance in a Model Insect," presented by **James Marden**, assistant professor of biology at Penn State;

■ Nov. 1: "Borderline Between Healthy Aging and Alzheimer's Disease," given by **Martha Storandt**, professor of psychology and neurology, Department of Psychology at Washington University;

■ Nov. 8: "Risk Assessment: Mandatory Physician Reporting of

Impaired Drivers," given by Dr. **Constance Williams**, instructor and staff physician at Harvard Medical School;

■ Nov. 15: Student GSA Presentations, in 110 Henderson Building Living Center;

■ Nov. 29: "Poverty and Aging in Rural America," presented by **Leif Jensen** and **Diane K. McLaughlin**, assistant professors of rural sociology at Penn State;

■ Dec. 6: "Assessing Errors in Everyday Tasks Made by Older Adults," given by **Sherry Willis**, professor of human development, Penn State; **Rebecca Allen-Burge**, NIMH postdoctoral Fellow; **Melissa Dolan**, graduate student; and **Resanna Betrand**, graduate student.

The Employee Assistance Program

The perfect pressure reliever

Your job is growing more demanding, your teenage son is having problems in school, your elderly mother's health is failing and, to top it off, you can't afford to join the gym to exercise away some of your stress. But still, you keep plugging along.

It's what Nancy Sassano calls the "Lone Ranger Syndrome" — our attempt to solve everything from the simplest to the most complex problems on our own.

As coordinator of faculty/staff health promotion programs, Ms. Sassano knows the difficulty people have asking for help.

"We put a lot of unnecessary pressure on ourselves because we let our problems build up. We believe we can handle it all, when the truth is, life is extremely complex and we could all use some help in dealing with the problems that face us."

As one answer to easing an employee's stress load, about nine months ago the University's Office of Human Resources entered into a contract with Personal Performance Consultants, Inc. (PPC), a firm that manages employee assistance programs (EAPs) for organizations nationwide. That partnership, effective Nov. 1, 1994, makes EAP services available to faculty and staff at all University locations.

Before last November, Penn State tested the concept by offering a pilot EAP at The Hershey Medical Center beginning in April 1992. Hershey's EAP is operated through a different local firm, Mazzetti and Sullivan EAP Services, Inc.

The EAP — a free, confidential and voluntary service — is available to all benefits-eligible employees and their household members, to help resolve problems or find appropriate assistance through an EAP referral.

Since the program's November debut, PPC reports that 5 percent of the employee population at the University has received counseling help from its network of EAP professionals, which includes licensed psychologists and licensed social workers. More than 12 percent of the employee population has had some form of contact with the EAP through direct counseling, telephone information, training or on-site crisis counseling. At The Hershey Medical Center, the overall EAP usage rate is around 12 percent.

Typically, EAPs have a 3 percent to 5 percent rate of use in an organization.

"We're pleased with the utilization, but we know that more people could benefit from this service," Billie Willits, assistant vice president for human resources, said. "In today's world, EAPs are evidence that employers are starting to recognize the need to provide programs to help people address a whole range of wellness concerns, and thereby function more efficiently."

Information on the exact number of people affected by personal problems is difficult to ascertain since many people who seek medical treatment either do not report or do not attribute their physical symptoms to emotional turmoil in their lives.

The latest national figures available (1992) from the U.S. Bureau of Labor Statistics indicate that more than 2.3 million work-related incidents involving lost work time were reported that year. Of that number, approximately 17,000 could be tied to emotional/mental disorders, stress or anxiety.

"I'm sure the number of these types of incidents is being

vastly undercounted," Elise Biddle, spokesperson for the bureau, said. "We only track the number of work-related problems reported because of lost work days. What we suspect is actually happening is that many more people who may be suffering from stress or anxiety simply keep coming back to work."

The key to stopping a problem before it escalates into something that results in lost work time or the need to seek medical assistance, Ms. Sassano said, is early intervention.

Employees or their household members can call the EAP, where clinical staff is available to do a brief telephone intake interview to find out the general nature of the situation and their geographic location. The individual is then given a second telephone number to set up an appointment with an EAP affiliate in their local area.

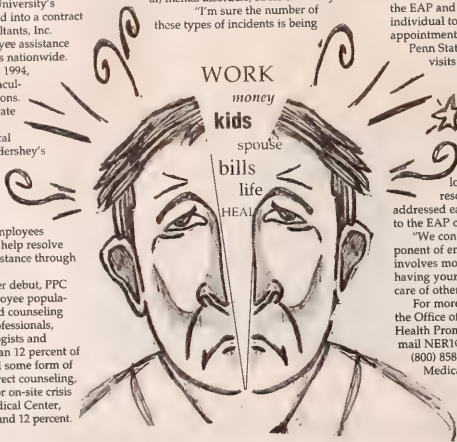
"Use of the program is completely voluntary," Ms. Sassano said. "There are no circumstances under which an employee can be required to use the EAP and it is always the responsibility of the individual to make and keep his or her own appointments."

Penn State absorbs the cost of up to three EAP visits per problem. If a referral is made for further treatment, reimbursement is subject to the limitations and restrictions of the individual's health care plan.

"This program is designed to deal with problems that require short-term solutions or to help a person recognize the need for more long-term help and find an appropriate resource," Ms. Sassano said. "If addressed early, 50 percent of the cases that come to the EAP can be resolved in three visits or fewer."

"We consider this program to be another component of employee well-being. Good health involves more than exercising, eating fiber and having your cholesterol checked. We need to take care of other aspects of ourselves as well."

For more information about the EAP, contact the Office of Human Resources, Faculty/Staff Health Promotion Division at (814) 865-3085 or E-mail NER@psuadmin. For EAP services, call (800) 858-2PSU. Employees at The Hershey Medical Center should call (800) 543-5080.



Faculty/Staff Alerts

New medical excuse policy

University Health Services has created a new policy aimed at eliminating confusion surrounding the medical excuse procedure for class absence and missed exams.

Beginning this fall, a "Verification of Significant Injury/Illness" form will be available to students who request it. Verification will be provided under the following circumstances:

1. treatment was rendered by a University Health Services clinician/nurse
2. verification is medically justified.

If faculty members would like further informa-

tion, they can make a request in writing to the director of University Health Services. However, to protect patient confidentiality, students will have to complete an "Authorization for Disclosure of Health Care" information form before any additional information will be disclosed to a faculty member.

This new procedure is the outcome of a special CQI team consisting of UHS staff, students and faculty. Any questions about the new procedure should be directed to Doris Guanowsky at (814) 863-6747.

Health Matters

Last year it was a new look, this year it's a new name for the faculty/staff health promotion program. In late August, look for the Health Matters (formerly Healthy Happenings) brochure in your mailbox. The brochure is your guide to presentations and programs sponsored by the Office of Human Resources. Additional copies of the Health Matters brochure may be obtained by contacting the F/S Health Promotion Office at (814) 865-3085 or by E-mail at JQH3@psuadmin.

McNair Scholar aids pediatric heart assist pump project

Romon Williams is counting on affairs of the heart—the Penn State artificial heart program, that is—to help him resolve some important life questions.

A senior mathematics major, Mr. Williams is among the first group of students from Virginia State University to participate in Penn State's McNair Scholars Program. As part of that program he is participating in a study of the fluid flow dynamics of a Penn State pediatric heart assist pump.

The Ronald E. McNair Post Baccalaureate Achievement Program, funded by the U.S. Department of Education, helps to prepare talented college undergraduates who are first-generation and low-income students, or who are from groups underrepresented in doctoral studies in their fields, to enroll in graduate programs.

Mr. Williams, who is the first person in his family to go to college, is sure he wants to go to graduate school but he's not ready to decide on the area of study.

"I'm interested in so many different areas," he said. "It's hard for me to narrow it down."

He says he is not particularly interested in biology but he has been interested in mathematics as long as he can remember.

An honors student at Virginia State, he participated in a radiation shielding study at Virginia Commonwealth University over the last two summers.

Joining a group of Penn State engineers working on improving a heart assist pump sounds like a major switch but Mr. Williams sees a big commonality.

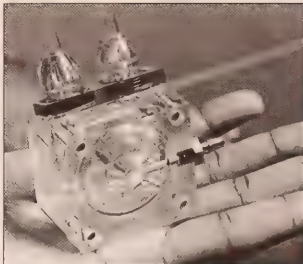
"I enjoy mathematics," he said. "In this project I get to apply mathematics through fluid dynamics. The project is building up my interest in taking a course in fluid dynamics when I get back to school in the fall."

Mr. Williams and his colleagues are using a laser



Romon Williams is among the first group of students from Virginia State University to participate in Penn State's McNair Scholars Program, and the Penn State pediatric heart assist pump, the subject of his summer research effort.

Photos: Greg Grieco



The Penn State pediatric heart assist pump is encased in a block of transparent plastic that allows laser beams to shine through it so researchers can view its internal operation.

apparatus, called a Laser Doppler Anemometer (LDA), modified by engineers at Penn State's Applied Research Laboratory to look at the flow characteristics of the pediatric heart assist pump, which was developed at The Hershey Medical Center.

Steven Deutsch, an ARL senior scientist and Mr. Williams' mentor on the project, says the fact

that the pediatric pump is smaller than the adult pump could change its flow characteristics.

"In the adult pump," he said, "our group looks for flow areas where turbulence causes high stress or stagnation encourages clotting."

In the pediatric pump, however, the flow may prove to be laminar or streamlined and non-turbulent. Such a flow could pro-

duce regions of poor washing of the artificial heart's surfaces which could lead to increased clotting."

"The results of the study will also be important in the upcoming design of a mid-size pump more suitable for women."

The little pump, about the size of a golf ball, is encased in a block of transparent plastic to allow the LDA's laser beams to shine right through it. The group is the only one in the world to look at the internal operation of a heart assist pump in this way.

Michael Radis, assistant director and academic coordinator of the McNair program, said, five students from Virginia State are participating in the program this summer as a first step toward developing a multifaceted linkage between the two universities.

Penn State's program, which is under the direction of Howard E. Wray III, is one of more than 70 nationwide established by the Department of Education in memory of Challenger astronaut-astronaut Ronald E. McNair.

—Barbara Hale

Research



Compost
cleans
soil.

University researchers say compost made from discarded mushroom growing medium may be an inexpensive, environmentally friendly way to clean up pesticide-contaminated soils.

They add that using the compost for soil bioremediation also could contribute to reducing a major solid waste disposal problem. About 35 million cubic meters of discarded medium is produced in the U.S. each year. Pennsylvania, which produces 40 percent of U.S. mushrooms, is a major source of the material.

Raymond W. Regan, associate professor of civil engineering and director of the Office of Hazardous and Toxic Waste Management, and his former student H.L. Chen first discovered that mushroom compost could degrade pesticides in 1991.

The research shows that mushroom compost can degrade certain pesticides in two days versus the two weeks it would normally take when exposed to typical soil microorganisms.

Penn State researchers are currently testing the ability of special adapted mushroom compost to detoxify additional pesticides.

Software eases antenna design/optimization

An new computer-aided antenna design and analysis package, based on a University engineer's core technology, promises to replace trial-and-error methods with quick, easy, economical point-and-click precision.

The package, called NEC-WIN, can be run at expert, intermediate or novice skill levels and is flexible enough to be used to optimize an amateur radio antenna or to model advanced applications for a professional designer.

Packaged and marketed by Paragon Technology Inc. of State College, NEC-WIN is based on modeling techniques developed by James K. Breakall, associate professor of electrical engineering.

Dr. Breakall says the core of the new modeling package is the Numerical Electromagnetic Code (NEC Code), the world standard for antenna design. Building an antenna model and displaying the results of NEC calculations on the computer has been notoriously user unfriendly. He notes that previously NEC has been used only to analyze antennas after they have been designed using trial, error and intuition.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Sharing CQI Experiences

In June, William Asbury, vice president for student affairs, traveled to Houghton, Michigan to present information about Penn State's CQI initiatives to more than 100 Michigan Technological University faculty members and administrators. Michigan Tech is initiating a CQI partnership with General Motors, similar to the DuPont/Penn State TQF Partnership that was begun in 1993.

Penn State has been actively involved in the Total Quality Forum since its inception. In May, Ford Motor Company and the TQF invited Louise Sandmeyer, executive director of the CQI Center, to Michigan State University to present a workshop on Penn State's academic and administrative CQI initiatives. Ms. Sandmeyer is currently on the Planning Committee for Total Quality Forum VII, which will be held in Pittsburgh in March 1996. In February, John Brighton, executive vice president and provost, introduced total quality concepts to Purdue University faculty and administrators at their "Excellence 21 Retreat."

Progress report

A key lesson learned in Penn State's grant partnering with IBM is the importance of quantifying and measuring progress and results. This summer IBM received an update on the progress made in 10 target areas. The CQI Center provided the following data:

From 1992 to present:

Number of CQI teams	116
Facilitators trained	84
Number trained in CQI courses	4,543
CQI teams trained	75
Processes improved by teams	77
Teams in Quality Expo '95	30
Attendance at Quality Expo '95	500
Policies and practices improved ('93-present)	60
Savings reported by 19 CQI teams	\$652,974

If you would like more information about CQI, please contact Louise Sandmeyer, executive director, or Carol Everett, assistant director of the CQI Center, 814-863-8721.



Plentiful crop

Rob Berghage, assistant professor of horticulture and coordinator of Penn State's Trial Gardens on the University Park Campus, takes a look at the healthy tomato yield from some of the test plantings. Although more waterings are required, the recent hot spell has been good for production of the fruit.

Photo: Greg Grieco

Intercom publication schedule for 1995-96*

Publication Date	Deadline Date	Publication Date	Deadline Date	Publication Date	Deadline Date	Publication Date	Deadline Date
1995							
Aug. 31.....	Aug. 23	Nov. 2.....	Oct. 25	Jan. 25.....	Jan. 17	April 11.....	April 3
Sept. 7.....	Aug. 30	Nov. 9.....	Nov. 1	Feb. 1.....	Jan. 24	April 18.....	April 10
Sept. 14.....	Sept. 6	Nov. 16.....	Nov. 8	Feb. 8.....	Jan. 31	April 25.....	April 17
Sept. 21.....	Sept. 13	Nov. 30.....	Nov. 22	Feb. 15.....	Feb. 7	May 2.....	May 1
Sept. 28.....	Sept. 20	Dec. 7.....	Nov. 29	Feb. 22.....	Feb. 14	May 9.....	May 15
Oct. 5.....	Sept. 27			Feb. 29.....	Feb. 21	June 6.....	May 29
Oct. 12.....	Oct. 4			March 14.....	March 6	June 20.....	June 12
Oct. 19.....	Oct. 11			March 21.....	March 13	July 18.....	July 11
		1996		March 28.....	March 20	Aug. 1.....	July 24
		Jan. 11.....	Jan. 3	April 4.....	March 27		
Oct. 26.....	Oct. 18	Jan. 18.....	Jan. 10				

*Schedule subject to change

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Annemarie Mountz, associate editor
Kathy Norris, staff assistant/calendar

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INTERCOM

August 31, 1995

Volume 25, Number 3

Class of '37 grad pledges \$1 million

University alumna **Naomi Fischer** of State College has committed \$1 million for a variety of programs that will provide financial aid to students and fund library acquisitions. Mrs. Fischer's late husband, **Floyd**, retired in 1979 as vice president emeritus of continuing education at Penn State after nearly 40 years' service in that field.

She designated her gift for the following areas:

- \$250,000 to endow the **Floyd Fischer Scholarship** in the College of Education. The awards will give preference to students age 25 or older whose life experience is atypical of traditional college-age students;

- \$250,000 to endow the **Naomi Fischer Graduate Fellowship** in the College of the Liberal Arts. Full-time graduate students in any of the college's academic fields will be eligible for these awards;

- \$250,000 to endow the **Floyd and Naomi Fischer Athletic Scholarship**. Students participating in any varsity sport will be eligible for this award. As an undergraduate, Mr. Fischer played on the varsity lacrosse team;

- \$200,000 to create the **Floyd and Naomi Fischer Libraries Endowment** for the acquisition of books and other materials for the University Libraries;

- The remaining \$50,000 will be equally divided between two existing endowments the Fischers created several years ago: an undergraduate scholarship in the College of the Liberal Arts and a graduate fellowship in adult education in the College of Education.

"I share my husband's deep affection for the University," Mrs. Fischer, a graduate of the class of 1937, said. "Floyd and I first met while we were students. Penn State has been a big part of our family for four generations, starting with my father, who graduated in 1914. We felt we had an obligation to give something back, so that others could benefit."

In 1993, the Board of Trustees named Fischer Road, which passes the Keller Conference Center, in recognition of Floyd Fischer's leadership contributions.

See "One million" on page 3



President Graham Spanier listens intently at the recent University Encampment held at Stone Valley.

Photo: Greg Giesco

State of the University Address

President to speak to University Sept. 15

When President **Graham Spanier** takes the Eisenhower Auditorium stage Sept. 15 to give his inaugural State of the University Address, people across the Commonwealth will be able to hear what Penn State's 16th president has to say about his priorities for the state's land-grant institution.

As part of his pledge for an open administration and his desire to reach out to Pennsylvanians, Dr. Spanier will be seen and heard live at all campus locations and many agricultural extension offices via satellite. WPSU-FM is also planning to carry the 3 p.m. speech live to a listening audience covering more than a dozen counties, and WPSX-TV will air the address live on I-4 as part of PCN, the statewide cable network. Viewers should check their local television listings for stations that are part of PCN.

Making his second appearance with Dr. Spanier in less than a month will be Gov. **Tom Ridge**, who will speak before the president's address. Gov. Ridge was recently at Penn State for its annual Ag Progress Days, a three-day event held at the Russell E. Larson Agricultural Research Center at Rock Springs. Dr. Spanier will be formally introduced by **William Schreyer**, chair of the Board of Trustees. The entire board will attend the address, which follows the board's regularly scheduled September meeting.

Faculty, staff, alumni, community leaders, students and friends of the University are encouraged to attend

See "Address" on page 3

Inside



"Sleeping Beauties"

Making its East Coast debut at the **Palmer Museum of Art** is an extensive collection of **African headrests**, which celebrate the richness of African art. See the story on page 7.



The book survives

Despite the proliferation of computers, the book endures. See the research story on page 11.

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Several LIAS courses offered



The University Libraries is offering the following seminars during September to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM. LIAS searching techniques that enable users to maximize their searching power will also be presented.

To register or learn more about the seminars, contact **Joyce Combs** at (814) 863-0325 or by e-mail at jsc@psu.edu. Seating is limited so register early.

■ Penn State Libraries Catalog in LIAS

Offers an overview of the University Libraries catalog, "The Cat," in LIAS and hands-on practice in applying LIAS searching techniques.

Sept. 5—noon-2 p.m.; Sept. 7—3-5 p.m.; Sept. 11—1-3 p.m.; Sept. 15—2-4 p.m.; Sept. 21—5-7 p.m.; Sept. 25—9-11 a.m.; and Sept. 27—1-3 p.m.

All sessions take place in Tower Room 402, Central Pattee Library.

■ Accessing LIAS From Your Home or Office

Accessing LIAS remotely using the Internet or a modem (dial-access). LIAS services and databases that are available to remote users will also be presented.

Section 1: Accessing with a Modem (Dial Access), Sept. 14—1:30-3 p.m.

Section 2: Accessing via the Internet, Sept. 21—1:30-3 p.m.

Tower Room 401, Central Pattee Library.

■ Agricola

Provides hands-on practice in accessing and searching the Agricola electronic database. Sept. 12—1-3 p.m., Tower Room 402, Central Pattee Library.

■ Art on the World Wide Web

Provides hands-on practice in exploring the World Wide Web. A variety of museums and projects will be visited to view art images. Sept. 26—10 a.m.-noon, Tower Room 402, Central Pattee Library.

■ Business

Covers three primary electronic resources: Dow Jones News/Retrieval Service, ABI/INFORM, and Disclosure. Sept. 11—6-7 p.m.; and Sept. 19—8-9 a.m., Reference Lecture Room, East Pattee Library.

■ Chemical Abstracts

Teaches techniques for searching CAsSearch, the online database equivalent of Chemical Abstracts, for chemical literature. Sept. 21—10:11:30 a.m., Reference Lecture Room, East Pattee Library.

■ Citation Indexes

Teaches techniques for searching Science Citation Index, Social Sciences Citation Index, and Arts and Humanities Citation Index. Sept. 11—10:11:30 a.m., Reference Lecture Room, East Pattee Library.

■ Data Management

Basic instruction in using Library Master software for IBM PCs and compatibles to create bibliographic databases. Sept. 26—1-3 p.m., Tower Room 402, Central Pattee Library.

■ Education

Features an overview of databases available for research in education. Sept. 18—10 a.m.-noon, Tower Room 402, Central Pattee Library.

■ Electronic Publishing

Explore the nature of electronic publishing with examples visited on the World Wide Web. Issues such as markup languages, multimedia, hypertext and copyright and electronic rights will be discussed. Sept. 11—9-11 a.m., Tower Room 402, Central Pattee Library.

■ Engineering

Features practice in accessing and searching databases and

resources available for research in engineering. Sept. 28—1-3 p.m., Tower Room 402, Central Pattee Library.

■ Interlibrary Loan

Features practice in searching electronic resources for items not owned by Penn State. Sept. 11—11 a.m.-1 p.m.; and Sept. 12—3-5 p.m., Tower Room 402, Central Pattee Library.

■ International Sources on the Internet

General introduction to Internet resources from the growing number of international intergovernmental organizations using the Internet to distribute information. Sept. 7—8:30-10:30 a.m., Tower Room 402, Central Pattee Library.

■ Introduction to ArcView2

Introduction to the capabilities of ESRI's ArcView 2 software. Sept. 19—11:30 a.m.-1:30 p.m., 123 Walker Building.

■ Introduction to Digital Elevation Models

Introduces participants to the USGS Digital Elevation Model and offers some potential data applications. Sept. 11—4-6 p.m., Tower Room 402, Central Pattee Library.

■ Legislative Research

Covers how to track Congressional legislation, determine status and locate texts of bills and laws. Other Congressional publications, including reports, hearings and the *Congressional Record* will be discussed. Sept. 22—11:30 a.m.-1:30 p.m., Tower Room 402, Central Pattee Library.

■ Literature

Features hands-on practice in accessing and searching databases and resources available for research in English, comparative literature, film and theatre. Sept. 5—9-11 a.m., Tower Room 402, Central Pattee Library.

■ Mediant

Features hands-on practice in accessing and searching the Mediant database for films and videos managed by Audio-Visual Services. Sept. 22—2-3 p.m., Tower Room 402, Central Pattee Library.

■ MEDLINE

Provides the fundamentals of searching the MEDLINE database through LIAS. MEDLINE indexes more than 3,600 journals in the fields of health, biomedicine, clinical medicine, nursing, veterinary science and dentistry. Sept. 21—9-11 a.m., Tower Room 402, Central Pattee Library.

■ Molecular Biology

Provides hands-on practice in accessing and searching electronic resources in molecular biology, cell biology and biochemistry. Sept. 27—9-11 a.m., Tower Room 402, Central Pattee Library.

■ NEXIS

Teaches the basics in using Mead Data's NEXIS databases available online in the General Reference and Documents sections of Pattee Library. Participants will learn how to effectively negotiate the NEXIS library and file structure and search a full-text database. Sept. 28—10 a.m.-noon, Tower Room 402, Central Pattee Library.

■ Patent Searching on LEXIS/NEXIS

Provides hands-on training in accessing and searching the PATENTS electronic library in the LEXIS/NEXIS system accessible in the documents section of Pattee Library. Sept. 6—10 a.m.-noon, Tower Room 402, Central Pattee Library.

■ Psychology

Provides the fundamentals of searching the PsycINFO database through LIAS. Sept. 29—noon-1:30 p.m., Tower Room 402, Central Pattee Library.

■ Public Policy

Introduction to electronic resources from the federal government related to the policy-making activities of Congress and the Executive Branch. Included are resources for bill tracking, locating federal regulations, locating statistical information, as well as Gopher and World Wide Web resources. Sept. 12—8:30-10 a.m., Tower Room 402, Central Pattee Library.

DIVERSITY

Program to launch Unity Days

In a Penn State version of "Hands Across America," 3,000 students, faculty, staff and community members will form a human chain 2.5 miles around the University on Sept. 27 from 4 to 5 p.m.

This "PAWS Across Penn State" is the kick-off event for the first Penn State Unity Days — Building Coalitions Through Education, Awareness and Cultural Sensitivity. Students and staff from the Commonwealth Educational System are invited to participate.

"This is the beginning of a series of unique events that will provide the Penn State community a chance to share and discuss issues that divide as well as unite us," said Elisha Nixon, chairperson of the Unity Days Committee and counselor at the Multicultural Resource Center. "We want to include groups and address issues that may not have had enough attention paid to them or have been excluded from agendas."

There will be Unity Days activities occurring all over the University Park Campus through March 1996, including a speaker sponsored by Colloquy workshops, seminars and other activities on topics related to diversity and coalition building.

The Unity Days activities are sponsored by the Multicultural Resource Center, the Equal Opportunity Planning Committee, the Commission for Racial Equity and the Center for Women Students.

The Unity Days Committee encourages anyone with disabilities to participate in its programs and activities. If you anticipate needing any type of accommodation or have questions about physical access provided, please contact Mary T. Franks, ADA coordinator at (814) 863-0471 V/IDD, in advance of your visit.

For more information on the PAWS event, contact **Michael Black** at (814) 863-0461 or for information on the other activities contact **Ms. Nixon** at (814) 865-1773.

New president making the rounds



President Graham Spanier, officially scheduled to take office Sept. 1, is already following an ambitious agenda of meeting students, faculty and staff. Shown above, Dr. Spanier talks with University cheerleaders at "Be a Part from the Start," a pep rally held Aug. 21 to welcome new students. Below, (center) the president talks with Christopher McNaughton, son of new faculty member David McNaughton (right) from the College of Education, and his wife, Janice Light, (second from right) associate professor of communication disorders. Also in the picture is Sandra Spanier, the president's wife and professor of English. The group attended a picnic for new faculty hosted by the Spaniers on Aug. 24. The president plans to continue his fast-paced schedule in the fall with the kick off of a statewide tour of University locations and their communities.

Photos: Greg Grieco

Address

continued from page 1

the address and the reception that follows in the HUB Ballroom. Anyone on the University Park Campus is asked to walk to the event rather than drive, which would add to the heavier-than-normal traffic flow that is expected.

Visitors to the University for the event can park in the available space in the Eisenhower Parking Deck. Overflow parking will be diverted to the Blue A lot behind the Agricultural Sciences and Industries Building. Restrictions on some access roads on campus, such as Pollock Road, will still apply.

Dr. Spanier is expected to speak about his values, his vision and his hopes for Penn State. He will touch on the University's mission and his own approach to leadership.

Anyone who misses the opportunity to see and hear the address live, or would like to view the address again, can catch it on I-TV at 6 p.m. Saturday, Sept. 16 or again on WPS-TV Channel 3 at 6 p.m. Sunday, Sept. 17.



Dr. Spanier talking to the crowd at the freshmen orientation program, "Rock the Block," held Aug. 18 at the Greenberg Sports Complex.



Sharing the spotlight on stage with the Nittany Lion mascot at "Rock the Block."

Applications for scholarship available

Applications for the Edward L. and Dessa B. Keller Memorial Scholarship are being accepted until Oct. 8.

The scholarship was established by Edward W. Keller to honor his father and mother. One or more scholarships ranging from \$400 to \$2,000 may be awarded each year.

Dr. Edward L. Keller served Penn State with distinction as vice president for public affairs and director of Continuing Education. He believed that "just about everybody is a candidate for adult education of some kind" — a philosophy he incorporated in Continuing Education.

All University graduate and undergraduate students enrolled full time or part time in either regular or extended degree courses are eligible for the scholarship. Additional consideration will be given to Continuing and Distance Education staff members enrolled in adult education doctoral programs or those participating in an internship at the Washington, D.C. office of the National University Continuing Education Association.

Application forms are available from Sandra Rothrock, 210 Keller Building, University Park, Pa. 16802; phone (814) 863-7752.

One million

continued from page 1

Mr. Fischer also graduated from the University in 1957 and joined its continuing education faculty four years later. He was nationally recognized for his pioneer work in expanding the scope of continuing and distance education programs and in developing innovative curricula that helped make the University a leader in the field.

"I don't think Naomi Fischer have been an inspiration to Penn State alumni and friends everywhere, but especially to our faculty," President Graham Spanier said. "They've provided support for some of our most critical programs, and the imprint of their philanthropy will be visible for generations. We're deeply grateful for this latest example of Mrs. Fischer's generosity."

In addition to the couple's previous philanthropic support, Mr. Fischer provided volunteer leadership for many of Penn State's most important fund-raising efforts. In the late 1980s, he co-chaired Centre County's major gifts component of The Campaign for Penn State and also gave valuable counsel as a member of the campaign's executive committee, and as a member of the National Development Council, the University's top fund-raising advisory body.

The funds the Fischers designated to create endowments will be invested and a portion of the annual return will support the programs they designated. The remainder of the return will be retained in the principal as protection against inflation.



LECTURES

Chemical engineering sponsors fall series

The Department of Chemical Engineering's Fall 1995 Seminar Series kicks off on Sept. 12 with the first of seven lectures that reflect the diversity of research areas in which chemical engineers are involved including biotechnological, bioengineering and environmental studies, as well as the more traditional area of transport phenomena. All seminars are at 10 a.m. in the Paul Robeson Cultural Center Auditorium on the University Park Campus. Refreshments will be served 15 minutes before each seminar. This fall's schedule includes:

■ Sept. 12 — "Discovery of Technology: How Do I Protect My Discovery?" by **Arthur Humphrey**, professor of chemical engineering, Penn State;

■ Sept. 26 — "Pulmonary Delivery of Proteins and Peptides," presented by **John Patton**, founder of VP Technology;

■ Oct. 3 — "What is so Puzzling about Hydrodynamic Diffusion?" given by **Donald L. Koch**,

associate professor of chemical engineering, Cornell University;

■ Oct. 17 — "Molecular Forces and Mechanisms Determining the Strength of Receptor-Mediated Adhesion," presented by **Deborah Ackband**, assistant professor of chemical engineering, University of Illinois, Urbana;

■ Oct. 24 — "Toward an Understanding of Super Coiled and Glassy Polymers," given by **Pablo Debenedetti**, professor of chemical engineering, Princeton University;

■ Nov. 21 — "Electroporation-Mediated Transdermal Drug Delivery," presented by **Mark Prausnitz**, assistant professor, Georgia Institute of Technology; and

■ Dec. 5 — "Lubricated Transport of Viscous Materials," given by **Daniel J. Joseph and Russell J. Penrose**, professor of aerospace engineering and mechanics, University of Minnesota.

Agricultural and biological science education focus of seminar series

A special seminar series aimed at bringing together faculty and graduate students interested in agricultural and biological science education and teaching in general is being sponsored this fall by the Plant Pathology Department in the College of Agricultural Sciences.

"Seeds of Change," a five-lecture series geared toward innovative teaching and training, began Aug. 28 and continues through Nov. 27. The remaining seminars include:

■ Oct. 16 — "Biology Brought to Life: A Case for Local Action and Global Thinking," presented by **Jo Handelsman**, Department of Pathology, University of Wisconsin, Madison;

■ Oct. 23 — "The Lectureless

Classroom: Innovations in Science Teaching," by **Larry D. Spence**, associate professor of political science, Penn State Center for Innovation in Learning;

■ Nov. 6 — "The Challenges and Opportunities of Extension Teaching," given by **Gary Moorman**, associate professor of plant pathology, Penn State; and

■ Nov. 27 — "Re-evaluating Our Education Mission: A Stakeholder's Perspective," presented by **Al Turgeon**, professor of agronomy, Penn State.

All seminars are in room 112, Buckhout at 3:30 p.m. For more information or to receive future announcements, contact **Hector Flores** at (814) 865-2955 or by E-mail at hector.flores@ags.psu.edu.

NSF director to speak at University Park on Sept. 8

Changes the science establishment must make in light of cuts in government research funding will be among the topics that **Neal Lane**, director of the National Science Foundation, will explore during a public address Friday, Sept. 8, at The Penn State Scanticon at University Park.

Co-sponsored by the Eberly College of Science and Continuing and Distance Education, the 4 p.m. address, titled "From Peas to Beans to Greater Challenges," will focus on ways in which the science establishment must confront changes and challenges from government and other areas. The address will follow a reception for Dr. Lane at 3 p.m. in the President's Room at The Penn State Scanticon. The reception and address are open to the public.

Penn State receives 17.4 percent of its funding for sponsored programs, or \$26 million per year, from the National Science Foundation, which is one of the major sources of support for education and research in science, mathematics and engineering.



Neal Lane

Dr. Lane has been director of the National Science Foundation since 1993. Before that he was provost and

professor of physics at Rice University in Houston, Texas.

A widely recognized scientist and educator, Dr. Lane has written more than 90 scientific papers and publications, including a textbook on quantum physics. He earned his bachelor's, master's and doctoral degrees from the University of Alabama.

In recent testimony before the House of Representatives Committee on Science, Dr. Lane said, "To my mind, the question is not where the dividing lines are between science and technology, or between basic and applied research, but rather, how do we take better advantage of the interrelationships in order for the nation to reap the full benefits of its integrated investment in science and technology?"

International conference set for September at Scanticon

An "International Conference on the Science, Technology and Applications of Sintering" will be held Sept. 24-27 at The Penn State Scanticon at University Park.

The three-day event will feature numerous technical sessions with lectures and discussions by experts from around the world. More than 300 investigators and practitioners from the international sintering community are expected to give 120 oral and nearly 50 poster presentations. The conference will explore new developments in applications of sintering processes for the fabrication of powder/particulate-based materials. New modeling of densification mechanisms will be investigated and novel and alternative processes to conventional sintering will be explored.

A keynote presentation, "A Strategy for Sintering Studies," will be given by **Richard Brooks**, professor at Oxford University and chief executive of the Engineering and Physical Sciences Research Council, United Kingdom.

The conference, endorsed by the American Ceramic Society, APMI International, the International Institute for

the Science of Sintering, the Materials Research Society and the Metal Powder Industries Federation, is being hosted by the Particulate Materials Center and the P/M Lab at Penn State. The program is co-chaired by **Randall M. German**, Brush Chair Professor in materials, and **Gary L. Messing**, professor of ceramic science and engineering and director of the Particulate Materials Center.

The Particulate Materials Center, recently granted NSF Industry/University Cooperative Research Center status, emphasizes education, research and knowledge transfer activities. The P/M Lab concentrates on research in the areas of liquid phase sintering and has recently flown microgravity experiments on the space shuttle; powder injection molding; and metal powder formation and processing.

For more information about the conference or to receive the conference program, contact the Particulate Materials Center, 147 Research Building West, University Park, Pa. 16802 or call (814) 863-6156, or E-mail your request to rg50@psu.edu.

LECTURES

Conference looks at health concerns of black women

In a recent survey, black women were found to be more comfortable with their bodies than white women. They were less concerned with eating disorders and having a few extra pounds did not drive them to dangerous diets.

But are they healthy? Toni F. Miles, a featured speaker at the Health Empowerment and Black Women Conference planned for Oct. 14 at The Penn State Scenic, will attempt to address this concern.

Dr. Miles, who has medical and doctoral degrees, is a professor in the Biobehavioral Health Program and directs its Center for Special Populations and Health.

Along with talks on breast cancer, high blood pressure and diabetes—all which hit black women disproportionately, according to Dr. Miles—the conference will also feature body composition testing and fitness evaluations.

"We are all trying to be such superwomen that we don't take care of ourselves," Dr. Miles said. "We must learn to incorporate our own healthy living status into our everyday lives and that includes exercise."

What keeps black women from exercising more?

"One thing is our hair," Dr. Miles said. "Our hair textures range from straight to kinky and we treat it differently. It would not be feasible to wash it every day, if sweating in a gym or swimming in a pool."

Pamela Ferrell from Cornrows & Co. in Washington, D.C., and author of *Where Beauty Touches Me* will demonstrate hair styles conducive to exercising and an active lifestyle. Ms. Ferrell was one of the first supporters of several women in the Washington, D.C., area who were either fired or told to stop wearing braids to work, by demonstrating that braids, cornrows and similar styles were attractive and clean.

Bookshelf

Don H. Bialostosky, professor of English, co-edited and contributed to a 320-page book of essays on romantic writers and how they drew upon rhetorical traditions for their works. Published by Indiana University Press (1995), the book, *Rhetorical Traditions and British Romantic Literature*, documents the importance of rhetorical traditions in shaping the poetry, novels and criticism of Coleridge, De Quincey, Wordsworth, Shelley, Blake, Austen and Scott.

Dr. Bialostosky, who contributed the essay "The Inventive/Disposition of *The Prelude*, Book I," is also the author of *Making Tales: The Poetics of Wordsworth's Narrative Experiments and Wordsworth, Dialogics, and the Practice of Criticism*.

Marie Secor, associate professor of English, contributed a section

titled "Jeanie Deans and the Nature of True Eloquence."

Kathleen Barry, professor of human development in the College of Health and Human Development, is author of *The Prostitution of Sexuality: The Global Exploitation of Women* (New York University Press).

The book revisits the subject matter of Dr. Barry's 1979 book *Female Sexual Slavery*, which Gloria Steinem called "a courageous and crusading book that should be read everywhere." The earlier book exposed an underworld of abuse in prostitution; Dr. Barry's new book assesses the situation a decade and a half later.

In the new book, Dr. Barry exposes the practice of teenage sexual exploitation, the flourishing Asian "sex tour" industry and the multi-

billion dollar pornography industry and its worldwide role. She makes the case that sexual exploitation is a political condition and the base from which discrimination against women is conducted. She also argues for the need to integrate the struggle against sexual exploitation in prostitution into broader feminist struggles.

The book concludes with a sampling of strategies—international, regional, local and personal—that feminist activists have used successfully since the early 1980s, and highlights new international legal strategies for human rights that have resulted from Dr. Barry's work.

Dr. Barry is also author of the 1988 book *Susan B. Anthony: A Biography of a Singular Feminist*.

Promotions

Staff

Pamela K. Adams, staff assistant VIII in College of Engineering.

Emily J. Anselmi, director, Transmission Facilities, in Computer and Information Systems, Telecommunications.

Janice E. Barner, staff assistant V in Office of The President.

John G. Bell, staff assistant in Continuing and Distance Education.

Jocelyn M. Bennett, coordinator, Minority Programs, in The Smeal College of Business Administration.

Mark H. Bergstrom, senior project associate in College of the Liberal Arts.

Randall G. Bock, supervisor, Research Laboratory Shops, in College of Agricultural Sciences.

John H. Confer, lead applications programmer/analyst in Computer and Information Systems, Office of Administrative Systems.

Margaret B. Conrad, administrative assistant I in Office of The President.

John D. Corro, information systems assistant II in Computer and Information Systems, Telecommunications.

Amy M. Dean, staff assistant VI at The Hershey Medical Center.

Jennifer V. Delp, manager, Rehabilitation Program, at The Hershey Medical Center.

Bobbi S. DeVore, staff assistant V in University Libraries.

Mark Domoto, clinical developmental specialist at The Hershey Medical Center.

Jon E. Eaton, associate research engineer in Applied Research Lab.

Bruce E. Ellis, administrative director, Undergraduate Programs, in The Smeal College of Business Administration.

Bonita S. Everhart, staff assistant IV in Business Services.

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Continuing and Distance Education.

Carrie L. Friday, staff assistant VI in Office of The President.

Barbara Garcia-Bechdel, staff assistant VI in Research and Graduate School.

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Jody M. Heckman, computer support assistant in Continuing and Distance Education.

James P. Helferty, associate research engineer in Applied Research Lab.

Michael A. Hill, senior research technologist in College of Earth and Mineral Sciences.

Daniel W. Hirschbuhl, network coordinator in Budget and Resource Analysis.

Barbara S. Hynum, staff assistant VII at The Hershey Medical Center.

Allison E. Jones, director of Continuing Education at Penn State Gettysburg.

John B. Kalbach, systems engineer II in Computer and Information Systems, Center for Academic Computing.

Annette L. Keller, staff assistant VI in College of the Liberal Arts.

Brenda F. Keller, rehabilitation case manager at The Hershey Medical Center.

Donna D. Kelly, clinical head nurse at The Hershey Medical Center.

Nannette M. Kirst, staff assistant VII at The Hershey Medical Center.

Andrea K. Lego, staff assistant VI in College of Agricultural Sciences.

Patricia C. Millalik, staff assistant VI in The Hershey College of Science.

Shari L. Miller, staff assistant V in The Hershey College of Science.

Elhelyn J. Moore, staff assistant V in College of Agricultural Sciences.

Donna M. Oyler, network support specialist in Budget and Resource Analysis.

Anne M. Prebble, staff assistant IV in Housing and Food Services.

Deborah M. Shay, staff assistant VI in Research and Graduate School.

Katherine M. Shumac, research support technician III in College of Agricultural Sciences.

Craig R. Story, systems analyst in College of Agricultural Sciences.

Reed A. Stouffer, manager, Bakery Productions, in Housing and Food Services.

Dianne M. Stover, staff assistant IV at The Hershey Medical Center.

Marilyn M. Traini, staff assistant VI at The Hershey Medical Center.

Angela R. Vietto, admissions counselor II in Office of The President.

Michelle H. Walls, senior cytotechnologist at The Hershey Medical Center.

Joanne L. Watson, staff assistant V in Office of Human Resources.

Jill S. Weaver, feinfocus research specialist at The Hershey Medical Center.

Deborah L. Zimmerman, program coordinator IV in College of Engineering.

Technical Service

Timothy M. McCartney, Stone Valley facilities maintenance worker in Intercollegiate Athletics.

Patricia D. Miller, operator B, Centralized Copy Center, in Business Services.

Robert M. Patches, utility worker at The Hershey Medical Center.

Helen L. Rusanak, bakery assistant in Housing and Food Services.

Corinne C. Shuman, utility worker at The Hershey Medical Center.

Karl L. Stine, athletic equipment and facilities worker in Intercollegiate Athletics.

Danny R. Walk, maintenance worker, Area Landscape, in Office of Physical Plant.

The Arts

AT PENN STATE

Fall exhibitions at Palmer Museum

■ **Sleeping Beauties: African Headdresses** from the Jerome L. Joss Collection at UCLA
Sept. 5 - Dec. 3
See page for story.

■ **Hiroshima: Photographs** by Wayne Miller
Sept. 19 - Dec. 17
Wayne Miller was a member of the Navy Photography Unit that was directed by Edward Steichen, the early Modernist photographer and later curator at the Museum of Modern Art. As a member of this unit, Mr. Miller was one of the first photographers allowed into Hiroshima after the atomic bomb was dropped on Aug. 6, 1945. His photographs are eloquent reminders of the physical and human devastation of the first atomic bomb.

For more information, call (814) 865-7672.

Center for Performing Arts tickets available

The Center for the Performing Arts individual performance tickets are now available for all shows on the 1995-96 schedule. The season's 30 events include Broadway musicals, chamber music, Latin jazz, children's programs, modern dance and more.

In addition to ticketed performances, the center, part of the College of Arts and Architecture, will offer a variety of community outreach and educational activities including master classes, lectures, demonstrations, workshops, discussions and a community dance jam. All are free to the public; phone (814) 863-0255 for more information.

Some 1995-96 season highlights include:

■ **Roadside Theatre**, an innovative troupe based in southwestern Virginia, opens the season with "South of the Mountain," a theatrical work that blends storytelling, acting, acoustic instruments and singing. It plays Saturday, Sept. 23.

■ **"Tales of Appalachia,"** a chamber music work, will have its world premiere at Schwab Auditorium on Saturday, Oct. 14. Composed by School of Music alumnus and football star Mike Reid, it will be performed by the Kandinsky Trio and story-teller Connie Reagan-Blake. Mr. Reid and the performers will participate in a residency on the University Park Campus to coincide with the premiere.

Another chamber work, "Sound Without Nouns," will also premiere in Schwab Auditorium this season. The work was composed by Anthony Davis, who spent many years of his

youth in State College and is today one of the nation's most respected composers. He will perform "Sounds Without Nouns" with the String Trio of New York Friday, Nov. 17.

■ **The Center's Cool Heat** series heats up the stage with five concerts devoted to Latin jazz. The Caribbean Jazz Project opens the series with a concert Oct. 5. Included in the sextet are David Samuels of Spyro Gyra on vibes and marimba, Paquito D'Rivera on saxophone and Andy Narel on steel drums.

■ **Jerry Gonzalez**, a percussionist-trumpeter born in New York City of Puerto Rican heritage, began working with Dizzy Gillespie in 1970. This led Gonzalez to become equally skilled at both jazz and Afro-Cuban music, and his dedication eventually led to Jerry Gonzalez and the Fort Apache Band. The sizzling band plays Saturday, Nov. 11.

■ **"Crazy for You"** is the first of five Broadway musicals on the center's schedule. The 1992 Tony Award-winning extravaganza combines 16 songs by George and Ira Gershwin with tap dancing and dazzling sets and costumes. It shows Friday and Saturday, Oct. 20 and 21.

The other musicals on the schedule include "42nd Street," "Cats," "The Who's 'Tommy' and 'Annie'."

■ **Le Cirque Eloize** brings an animal-free circus to Eisenhower in a performance especially suited for children. The seven-member troupe, based in Montreal, offers a thrilling program of juggling, clowning, balancing and acrobatics combined with the magic of theater, dance and music. It performs Nov. 5.

■ **Dance Theatre of Harlem** was founded by Arthur Mitchell with the belief that "given equal opportunity, every child can succeed." It performs Friday, Oct. 13.

■ **The Central Ballet** of China brings a distinct ballet style to Western and Chinese classics, as well as contemporary works. It performs Friday, Nov. 10.

■ **"The Nutcracker"** is an important holiday ritual for many. This season, the Moscow Classical Ballet offers a fresh production that has won numerous accolades for its choreography. "The Nutcracker" will be performed Friday and Saturday, Dec. 1 and 2.

For ticket information contact the Arts and Ticket Center, open Monday through Saturday, 8:30 a.m. to 4:30 p.m., at (814) 863-0255. (800) ARTS-TIX. All major credit cards are accepted.

Harrisburg exhibit

A monthlong art exhibit kicks off this year's extensive events schedule at Penn State Harrisburg.

"Animal and Other Six-Letter Words" is the theme of the Gallery Lounge art exhibit featuring the large-scale charcoal and pastel drawings of Sue Buck, an assistant professor of art at Allegheny College. It's on display through Sept. 26.

Ms. Buck has a master's degree from the Maryland Institute College of Art and a bachelor's degree from Ohio University. Her education includes further graduate study at the University of Arizona and the University of Colorado.

She has exhibited both nationally and internationally in 30 states and four foreign countries. Her work primarily deals with social and political issues, with her most recent effort in charcoal and pastel using animal imagery.

Undergraduate recital

Ten undergraduate students who played outstanding juries in the spring will perform in the College of Arts and Architecture School of Music jury recognition recital at 8 p.m. Friday, Sept. 8, in the School of Music Recital Hall on the University Park Campus.

■ **Erik Liebegott**, a senior percussionist and the music education program, will open the recital with *Sonata for Timpani* by Rich Holby; **Jason Majewski**, a cellist and senior in the music education program, will play *Prelude from Suite No. 2 in D Minor* by J.S. Bach; **Theresa Scheer**, a pianist and senior in the music education program, will perform *The Harp* from "Ten Pieces" by Prokofiev; **Ivan Hodge**, a sophomore violin major in the music education program, will play *Adagio from Mozart's Concerto No. 5 in A*;

■ **Rich Nasto**, a senior in the music education program, will perform *Musical for Ten Saxophone and Piano*, a three-movement work by William Karlins; **Doug Garner**, a junior in the music education program, will sing "Eilt, eilt, ihr angehoeh'ten Seelen" from Bach's "St. John Passion"; **Holly Anderson**, a junior music major, will sing "Warm All Over" from "The Most Happy Fella" by Frank Loesser; **Gregg Goldner**, a sophomore percussion major, will perform, "Frogs," a marimba selection by Keiko Abe; **Nicholas DiNunzio**, a junior trombone major, will perform *Sonata in F Major* by Marcello; and **Keith Kostick**, a senior organ major in the music education program, will conclude the recital with "Final" from *Sonata No. 1 in D Minor* by Guilman.

The performers are students of School of Music faculty members Dan Armstrong, Susan Boardman, Kim Cook, Marylene Doske, Richard Kennedy, Mark Lusk, James Lyon, June Miller and Dan Yoder.

The recital is free and open to the public.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, Sept. 1

■ **Geography's Coffee Hour**, 3:30 p.m., 206 Walker Bldg. John Western on "Soft Data, Hard Work: Barbadian Londoners Encounter an English-American Ethnographer."

Monday, Sept. 4

Labor Day

Friday, Sept. 8

Palmer Lecture, 1:30 p.m., Palmer Lipcon Auditorium. Glenn Wilmonson on "Nineteenth-Century Photography."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Judy Cassidy on "The Making of To Render a Life."

Eberly College/CAOE, 4 p.m., Penn State Scenic Center. Neal Peas on "From Peas to Beans to Greater Challenges."

School of Music, 8 p.m., Recital Hall. Jury Recognition Recital.

Saturday, Sept. 9

Gallery Talk, 11 a.m., Christoffers Lobby, Palmer Museum. Efram Burk on "The Art of John McDonough."

School of Music, 8 p.m., Recital Hall. Richard Kennedy, tenor.

Sunday, Sept. 10

■ **Gallery Talk**, 1 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "African Headdresses."

■ **"A Different But Equal"**, Palmer Lipcon Auditorium.

School of Music, 3 p.m., Recital Hall. Evelyn Ellis, clarinet.

SEMINARS

Thursday, Aug. 31

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. Clifford Will on "9PN Versus Computer Calculations for Inspiral Binaries."

Veterinary Science, 3:30 p.m., 16 Agricultural Sciences and Industries Bldg. Kim Weaver on "Mammary Gland Lymphocyte Functions Parallel Shifts in Trafficking Patterns During the Post-Partum Period."

Statistics, 4 p.m., 117 Classroom Bldg. Mark Irwin on "Efficient Imputation in Linkage Analysis."

Friday, Sept. 1

Entomology, 11 a.m., 118 Agricultural Sciences and Industries Bldg. Mark McNeill on "Biological Control of Argentine Stem Weevil in the New Zealand Pastoral Ecosystem: An integrated Approach."

Tuesday, Sept. 5

Biology, 4 p.m., 8 Mueller Lab. Andrew Stephenson on "Genetic and Environmental Factors that Influence Pollen Performance."

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Building South. Carol V. Gay on "Bone Cells and Calcium Ions."

Wednesday, Sept. 6

Gerontology Center, noon, 101 H&H-East. Mark A. Lane on "Slowing Aging by Calorie Restriction."

Thursday, Sept. 7

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. Jorge Pulpe on "A Rigorous Solution to the Quantum Einstein Equations."

Friday, Sept. 8

Gerontology, 10:55 p.m., 107 ASI. John Stiebler on "Hydrology and Nutrient Export in a Small Northeastern Pennsylvania Watershed."

EXHIBITS

Palmer Museum:

■ **Palms**, non-objective paintings by West Coast painter John McDonough, through Oct. 1.

■ **"Sleeping Beauties: African Headdresses** from the Jerome L. Joss Collection at UCLA," through Dec. 3.

■ **"Photographs from the Permanent Collection,"** 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

■ **Reflects an international perspective**

Major African headrest exhibition set to open

The exhibition "Sleeping Beauties: African Headrests from the Jerome L. Joss Collection at UCLA" makes its East Coast debut at the Palmer Museum of Art on the University Park Campus beginning Sept. 5.

The exhibition, which has previously been shown only at UCLA's Fowler Museum of Cultural History, celebrates the diversity and richness of African art. The 128 African headrests are supplemented by 20 Asian examples and 17 from Oceania. Used for both utilitarian and symbolic purposes, these multifunctional objects take a variety of forms and are made of materials as varied as wood, stone, ivory and metal.

"When I heard about this collection, I thought it sounded like something new for Penn State. To the best of my knowledge we have never had a collection of African art of this magnitude here. We were very fortunate to make contact with the Fowler Museum and arrange for the exhibition to come here," Mary E. Linda, assistant director of the Palmer Museum of Art, said.

The Joss collection, which includes exceptional works of art and many unusual pieces, is one of the largest and most comprehensive collections of African headrests. A grant from the National Endowment for the Arts provided partial funding for the presentation at Penn State, which runs through Dec. 3.

In conjunction with this unique exhibition, the College of Arts and Architecture is holding a University-wide student headrest design competition. All University campuses will receive brochures about the competition and juried exhibition, which is funded by a grant from the University's Equal Opportunity Planning Committee.

"The headrests can be made out of different materials, and can be made in different styles," Dr. Linda said. "There will be different categories, with awards given in each category."

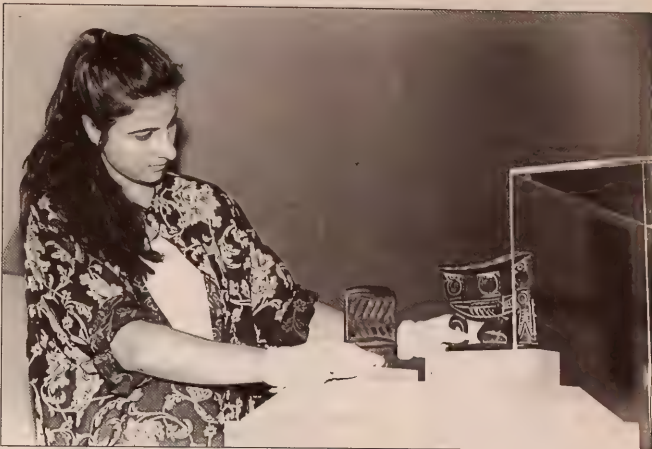
Deadline for contest submissions is Friday, Nov. 3. The top 20 entries will be on display in the Patterson Gallery II from Nov. 9 to Dec. 10. For more information, contact Patrick McGrady, curator of education, at (814) 865-7672.

The EOPC also is funding a special lecture, gallery talks and films about African cultures, planned to coincide with the exhibition.

Many exhibitions are installed to be viewed in chronological order, but this collection will be arranged differently.

"Many of these headrests are from the late 19th and early 20th centuries, so it made more sense to group them by culture than by period," Dr. Linda said. "Information panels are included in each section. In addition, there will be photos installed showing how the headrests are used in Africa, so you're not only looking at the headrests themselves, but are also learning about how they're used."

Headrests in Africa have a long tradition, dating to their use by the ancient Egyptians as early as 2600 B.C. and, in some areas, continuing to the present. This exhibition, curated by Doran H. Ross, deputy director of the Fowler Museum, and



Exhibition preparator Amy Young works to install the "Sleeping Beauties" headrests in a Ron Hand-designed exhibition at the Palmer Museum.

Photos: Greg Grieco

William Dewey, assistant professor of art history at the University of Iowa, includes examples from ancient Egypt, where headrests were used both in daily life and as burial furniture. Since the head was considered to be the seat of life, headrests were placed inside tombs and augmented with amulets and other charms to prolong existence after death.

Headrests are still prevalent in many east

African countries.

Used primarily by men to signify status, these headrests are often designed to protect elaborate coiffures that identify one's age, gender or rank. The Joss collection features a selection

from the pastoral peoples of Kenya, Ethiopia and Tanzania and examples from central Zaire that have human figures as supports.

In east Asia, the ceramic pillow has been a traditional sleeping accessory for at least 13 centuries. Headrests of stone, clay, grass, wood, rattan, bamboo and cloth have been produced from ancient to modern times. Some were accessorized with locking drawers to store valuables, incense burning devices or ornamental motifs of luck, prosperity and fertility.



Most headrests in the exhibition are only about six inches tall.

Related activities

The exhibition "Sleeping Beauties: African Headrests from the Jerome L. Joss Collection at UCLA" has spawned a number of related events at the University Park Campus.

Special lecture

William J. Dewey, assistant professor of the School of Art and Art History at the University of Iowa, will present a lecture titled "Headrests of Africa: Declarations of Status and Conduits to the Spirits" at 7:30 p.m. Sept. 14 at Palmer Lipson Auditorium.

Gallery talks

"African Art at the Palmer Museum," in Christoffers Lobby with graduate assistant Sarah Andrews: 11 a.m. Sept. 16; 2 p.m. Oct. 6; 1:30 p.m. Oct. 27; 1 p.m. Nov. 2; and 2 p.m. Dec. 1.

Films

All films will be shown at 2 p.m. in the Palmer Lipson Auditorium, Palmer Museum of Art, on the University Park Campus.

- Sept. 10: *Different but Equal*.
- Sept. 17: *Mastering a Continent*.
- Sept. 24: *Caravans of Gold*.
- Oct. 1: *The King and the City*.
- Oct. 8: *The Bible and the Gun*.
- Oct. 15: *The Magnificent African Cake*.
- Oct. 22: *The Rise of Nationalism*.
- Oct. 29: *The Legacy*.
- Nov. 5: *Massai Manhood*.
- Nov. 19: *Asante Market Women*.
- Dec. 3: *Witchcraft Among the Azande*.

Reach out and touch someone Gerontology Center program has answers

The operators of a Centre Region retirement community asked a resident for an estimate of her total medical bills for the past year to make sure she was qualified to keep living there. She wasn't sure how to get the estimate, so she called AGE LINE, where a volunteer told her how to reach her medical plan administrator's home office.

Another caller needed to find out which local dentists would take on new cases for senior citizens with low or no insurance coverage. Other people wondered if the AARP's 55 Alive/Mature Driving program is offered nearby, still others wanted to know if Penn State has exercise and wellness classes specifically geared toward the aged.

These are just a few examples of the questions being fielded by volunteers with the new AGE LINE service, part of the Penn State Gerontology Center Outreach Program, based in the College of Health and Human Development. AGE LINE is available free to older residents and those who work or live with them in the local community and across the Commonwealth. Any member of the public can call AGE LINE at (814) 863-4517 for assistance, including referrals to other local offices and national 800-number phone services that can more properly address a caller's need.

Callers to AGE LINE can also get information about on-campus activities that are relevant to senior citizens and details on the availability of parking, transportation and special assistance for those activities and other special events.

Much of this campus-oriented information has also been widely distributed throughout the community in the form of a booklet, *A Senior Citizen's Interest Guide to Campus Life*, which was assembled by the Gerontology Center staff and volunteers. The *Interest Guide* is available free in many local government, real estate, physician, travel agency and church offices, or by calling AGE LINE. It has entries on numerous University offerings in the areas of education, recreation, entertainment, shopping, dining, health services, general services and employment/volunteer opportunities.

The work of the volunteers who have generously donated their time on such projects is representative of the University's expanding outreach to senior citizens in the Centre Region. Currently, eight volunteers — seven area retirees and one undergraduate student specializing in therapeutic recreation — are under the direction of the acting coordinator of volunteers **Dorothy Danis**, a retired certified registered nurse anesthetist.

The outreach efforts are driven in



Dorothy Danis, acting coordinator of volunteers with the Gerontology Center, takes a call on AGE LINE, a new service to older residents of the Centre Region.

Photo: Greg Grisco

part by the natural aging of the local permanent population, as well as by the region's growing popularity as a place for new residents to spend their retirement years. State College has been featured as among the top values for retirement living in recent articles in several national publications.

"University Park is a wonderful resource for older residents in the surrounding community and the Gerontology Center is determined to act as a clearinghouse for the kinds of information those residents want and need," said **Pat Hansen**, assistant director for outreach with the center. "We should soon be able to hire a permanent coordinator of volunteers to help further this important work."

The volunteer efforts parallel another project overseen by Ms. Hansen, the Geriatric Interest Network (GIN), an alliance between local providers of goods, services and support designed especially for older adults. The goals of the GIN include generating mutually supportive communication among the alliance members; providing the members with information and educational opportunities on issues of aging; identifying unmet needs of older adults and providing a setting to generate collaborative resolutions; advocating for older adults as individuals and as a special part of the community; and promoting innovative services and products for elders and their families.

— Gary Cramer

Committee expands

The Staff Focus Committee, appointed in March 1995 to act in an advisory capacity to the Office of Human Resources, has been expanded.

Originally consisting of 16 members, the group will now include **Lissa Olbeter**, assistant director of Research Affairs at The Hershey Medical Center, and **Frank Simmons**, assistant county cooperative extension agent in Blair County.

The Staff Focus Committee provides review and advice to **Billie S. Willits**, assistant vice president for Human Resources.

Two fund-raising campaigns begin at Penn State Harrisburg

■ Remembering the Holocaust

A collaborative fund-raising campaign will begin at Penn State Harrisburg this fall aimed at establishing a Holocaust literature and video section in Heindel Library.

Eric Epstein, adjunct professor at Penn State Harrisburg and the chairman of the Harrisburg Jewish Community Center's Holocaust Education Committee, is working with **Sandra Friedman**, director of development, on the library project and the campaign.

The library collection, geared to enhancing academic offerings at PSU and also to serve the general public, will contain information on both the Holocaust and other instances of genocide.

Included in the multi-faceted project is the conversion to CD-ROM of the videotaped recollections from Holocaust survivors and their liberators who reside in the Harrisburg area.

Mr. Epstein videotaped stories from more than 50 survivors and many liberators.

■ Environmental engineering program

A fund-raising effort to complement the growth in the successful environmental engineering programs at PSU is now under way.

With a three-part emphasis, the fund drive is aimed at enhancing the program to meet the environmental engineering needs of the community far into the next century.

The first portion of the effort is to raise funds to purchase equipment; the second is aimed at the eventual expansion of the Science, Engineering and Technology Building to provide more space for labs, and the third part proposes an endowed fellowship in environmental engineering.

A planned fall reception for the public will feature explanations of the vision and accomplishments of the programs.

Appointments

Nittany Lion Inn has new business manager

Vicki Cemansky has been named business manager of The Nittany Lion Inn. She assumed the position May 1 and is responsible for the operation of the accounting office, maintenance of financial records and internal controls, maintenance and development of data processing systems and the coordination of general accounting requirements with University Central Administration.

Ms. Cemansky graduated from Lehigh University with a B.S. in accounting and finance in 1979. She was the assistant front office manager for Omni Hotels, The Parker House, in Boston, Mass., and an assistant regional systems manager with Beacon Hotel Corporation. She worked as a property accountant for Lodging Unlimited Inc. and was a regional controller for the G.F. Management Company in Philadelphia.

Her most recent position before coming to Penn State was with The Marriott Conference Center Division. There, she was a unit controller at Davis W. Gregg Conference Center at The American College in Bryn Mawr, Pa. She is a certified rooms division executive, a certification through The Educational Institute of The American Hotel and Motel Association.

Harrisburg names administrator for Continuing Education program

The award-winning Continuing Education program at Penn State Harrisburg has a new administrator.

Mukund S. Kulkarni, a member of the School of Business Administration faculty since 1985, has been named assistant to the provost and dean for Continuing Education. He replaces Edward Minnock, who guided the program as its director since 1991.

Dr. Minnock left the college to create a continuing education program at Saginaw Valley State University in Michigan.

Dr. Kulkarni most recently served as the School of Business Administration director of undergraduate

studies and associate professor of finance. Dr. Kulkarni will direct the operations of the Division of Continuing Education and chair the search committee for a new director of Continuing Education.

Since Dr. Minnock joined Penn State Harrisburg as director of Continuing Education in 1991, student credit hours have increased 84 percent, revenue has jumped by 52 percent and income from grants has skyrocketed by 300 percent.

During Dr. Minnock's tenure as director, Penn State Harrisburg CE has been honored both locally and nationally, receiving the National University Continuing Education Bronze Award for Excellence for its summer course booklet; the Association for Continuing Higher Education Certificate of Excellence for the development of international programs with Barbados; and the CE Association of Pennsylvania Award for the development of marketing materials for associate degree programs.

And, for the past three years, Penn State's Management Development Programs and Services recognized PSH CE for leading the University system in the number of CE contract training projects.

Since 1991, the CE office's contract training activities have increased significantly. Currently the office is providing more than 700 hours of on-site training per year to employees of business, industry and state agencies.

Also mirroring the remarkable growth is the Kids College program serving area school children. Since its inception in 1993, Kids College has grown to the point that more than 1,000 were involved in its programs this summer.

Executive housekeeper appointed at Nittany Lion Inn

Deborah Reynolds has been named executive housekeeper of The Nittany Lion Inn. Ms. Reynolds will be responsible for the supervision of the Housekeeping Department to assure proper cleaning, upkeep and maintenance of the hotel, and for appropriate record keeping of inventory and employee records.

Ms. Reynolds has had 10 years of professional experience in housekeeping, including seven years as a full time guest room attendant at The Nittany Lion Inn. She is an active participant of the Housekeeping Task Force for Training, and has assisted in developing job standards for the department. She has also participated in Human Resources development courses through the University.

Director of development joins University Libraries

Elaine D. Stuhr has been named director of development for the University Libraries.

Ms. Stuhr brings more than 15 years of development experience in higher education to Penn State.



Elaine D. Stuhr

She most recently served as assistant dean for development and alumni relations in the School of Law at the University of Oregon. Her development experience began at Whitman College in 1978 and from 1981-87 she served as the director of development for that institution. She also has held the position of assistant vice president for public affairs and development and executive director of the University of Oregon Foundation.

Ms. Stuhr holds a degree in psychology from Vanderbilt University and has done master's work in the Graduate School of Management at Georgia State University. Her husband, **John**, heads the Department of Philosophy in the College of the Liberal Arts.

Partings

Professor retires with emeritus rank

After 38 years of teaching, research and service at Penn State, **Alfred Triolo**, associate professor of Italian and Spanish, retired with emeritus rank.

A native of New York City, he received his B.A. from the City College of New York in 1948, his M.A. from Columbia University in 1949 and his Ph.D. from the University of Illinois in 1956. For three years before completing his Ph.D., he was instructor of Spanish at The University of Michigan. He came to Penn State in 1957 as assistant professor of romance languages.

Throughout his long and distinguished career at Penn State, Dr. Triolo taught both Italian and Spanish language and literature courses, dealing primarily with Dante, the Italian Renaissance and 16th-century Spanish literature. For many years he was the University's sole professor of Italian and was a pioneer for the present Italian program.

A respected Dante scholar, Dr. Triolo has published essays and reviews in major journals and his

latest article, "Machiavelli's *Mandragola* and the Sacred," appears in the *Arte Lombarda* (Milan). Another study on Dante will be published shortly in a volume of essays edited by Anthony Oldcorn and Allen Mandelbaum.

Professor Triolo plans to remain active in the Department of Spanish, Italian and Portuguese—he will teach courses on *Rojas's Celestina* and on Dante. He will also continue his research work on the structure of Dante's *Inferno* and the *Purgatorio*.

History professor ends 31-year career

Eugene N. Borza, professor of ancient history, has retired from the University after 31 years service. Dr. Borza joined the Department of History in 1964 after completing his Ph.D. at the University of Chicago. He taught a wide variety of courses, ranging from undergraduate surveys of ancient history to advanced graduate seminars in Greek history, and supervised a number of M.A. and Ph.D. students.

Dr. Borza established himself as one of the leading authorities on the history and archaeology of ancient Macedonia, and served two terms as president of the Association of Ancient Historians. He has given more than 160 lectures and papers at American and foreign universities and academic meetings, and is the author or editor of some 40 scholarly articles and seven books. His *In the Shadow of Olympus: the Emergence of Macedonia* (Princeton University Press) was nominated for prizes in both the American Historical Association and the American Philological Association.

In recognition of his contributions, the Association of Ancient Historians recently presented him with a volume, titled *Makedonia*, in which were collected and reprinted 15 of his own essays on the ancient Macedonians.

Dr. Borza has held numerous grants, endowed fellowships and lectureships, and has held endowed professorships at the University of Washington and the American School of Classical Studies at Athens. He has been active in several professional associations and has held offices in the Archaeological Institute of America and the American School of Classical Studies.

At Penn State, Dr. Borza was given the Class of 1933 Award for Outstanding Contributions to the Humanities, and was recently recognized as a finalist in the International Education Awards for having developed the annual education abroad program in Greece. In 1994-95, he served as associate chair of history for the Department of Classics and Ancient Mediterranean Studies.



Eugene N. Borza



Alfred Triolo



Good, clean fun

University employees Julia Nelson, second from left, and Tom Federowicz, second from right, help Edan Schueer, left, Zoi Resse and Ari Resse make soap carvings at DASH or Discover Alternative Service Help, a weekly camp for school-age children of students, faculty and staff. Prudence Johnson directs the Office of Human Resources program, which ends Sept. 1.

Photo: Greg Grieco

NEWS IN BRIEF

Evening child care services

Evening child care hours will be offered for children of Penn State parents for the fall semester beginning Sept. 5.

Fun on the Run™ is a cooperative effort of the Child Development and Family Council of Centre County, Inc. and the Pennsylvania State University Office of Child Care Program Services. The program offers evening child care services for up to 20 children ages 2 through 12 whose student, staff or faculty parents are taking classes, teaching classes or needing study time.

Cost is \$1 per hour per child for student parents and \$2 per hour per child for faculty/staff parents.

Reservations must be made in advance. For more information contact Sara Olson, PSU Child Care Program Services at 865-9346.

Dean's Lecture Series

The College of the Liberal Arts has announced the establishment of the Dean's Lecture Series.

The first speaker in the 1995-1996 series will be Stanley Weintraub, Evan Pugh Professor of arts and humanities. He will discuss "World War II and the Myth-use of History" at 3 p.m. Wednesday, Sept. 6, in the ballroom of the Nittany Lion Inn at University Park. A reception will follow in the Atrium. The program is open to the public.

Day of Caring

The second United Way Day of Caring in Centre County is scheduled for Wednesday, Sept. 27. Penn State employees are encouraged to consider volunteering their time, talents and a vacation day to participate.

Last year, at the first Day of Caring, more than 150 Penn State, faculty, staff and students participated in projects across the county to assist United Way member agencies.

To register for the event, contact Centre County United Way, 117 E. Beaver Ave. or call 238-8283. Individuals or spokespersons for campus groups and organizations may register.

Penn Stateans can choose to assist with projects at a number of United Way agencies. Many assignments include painting, both interior and exterior, and outdoor yard work. Among the projects to be completed are:

- Exterior painting: Strawberry Fields (two

State College locations); Girl Scouts—Camp Golden Pond (Petersburg); and Boy Scouts—Seven Mountains Camp;

- Interior painting: Women's Resource Center; Skills Volunteer Center; Temporary Housing; YMCA Bellefonte;

- Yard work: Women's Resource Center; Strawberry Fields (two locations); Temporary Housing; and Nature/Environmental Center—Penn's Valley; and

- Other: Carpet laying—United Way office; drop ceiling, partitions—Strawberry Fields; and disaster training—Red Cross.

Fall ball program

The American Red Cross-Centre Communities Chapter will conduct the following blood drives at University Park over the coming week:

- Sept. 5, Natorium, noon-5 p.m.
- Sept. 6, Kern, 10 a.m.-4 p.m.
- Sept. 7, Wesley Center, 236 E. College Ave., noon-6 p.m.
- Sept. 8, HUB Ballroom, 10 a.m.-4 p.m.

While walk-ins are welcome to all of the drives, appointments help ensure a quicker processing time, which takes about an hour. To schedule an appointment, please call Connie Schroeder, Red Cross campus coordinator, at 237-2713.

InterNexus

To learn more about the Internet and how to navigate it, those interested should attend the InterNexus seminar offered by the University Libraries and Computer and Information Systems. The seminar, designed to provide individuals with basic concepts and skills needed to successfully cruise the Information Superhighway, will be held Sept. 7 and Sept. 20. No registration is required.

Once you've attended the InterNexus seminar, more advanced seminars are available, including:

- Introduction to the World Wide Web/Gopher: 6-8 p.m., Sept. 12, 101 Classroom Building.
- Introduction to WWW/Gopher Using IBM Computers (Hands-on session: Registration required; 9-11 a.m., Sept. 14, 116 Wagner Training Center.

To register, contact Jean Cowher at (814) 863-4356 or by E-mail at ajc@psuvm.psu.edu.

Faculty/Staff Alerts

Two signatures required

The Telecommunications Service Requisitions (TSR) form, used when requesting services and equipment from the Office of Telecommunications at University Park, has been revised and will require two signatures beginning Oct. 1.

Colleges, departments, campuses, administrative units and other Penn State locations that use a TSR for requesting services or equipment should be aware of this change. The TSR form is now being included in the University's *General Forms and Usage Guide* to be distributed this fall.

It is important that personnel preparing and approving any TSR be aware that:

- 1) Two signatures are required — that of the financial officer and the budget executive/budget administrator.
- 2) An area has now been included on the form to indicate whether any verbal amendment of the TSR is permitted. If this area is not completed, the default is no.

Copies will be distributed to University offices in September.

Proposal writing workshop

The Equal Opportunity Planning Committee will hold its annual Proposal Writing Workshop from 9 a.m. to noon Friday, Sept. 8, in the Nittany Lion Inn Board Room on the University Park Campus. For more information and to register, contact Shannon Hoover at (614) 863-8493 by Sept. 1.

Health Matters

This semester, the faculty/staff health promotion program kicks off the season with a complementary lineup of new and returning features. To register for any of these offerings, contact Jan Hawbaker at 865-3085 or JQH3@psuad.mn.

Understanding Your EAP

This program provides an overview of EAP services and a brief illustration of the counseling process. Meets Tuesday, Sept. 12, 10-10:45 a.m., in 110 Henderson Building (The Living Center). Cost: None. Course: WEL 048.

EAP: The Supervisor's Role

Includes all the contents of "Understanding Your EAP," as well as an illustration of how a supervisor may interact with the employee relations division, human resources representatives and the EAP when an employee's personal problems affect work. Meets Tuesday, Sept. 12, 8:15-9:45 a.m., in 110 Henderson Building (The Living Center). Cost: None. Course: LDR 018.

Weight Watchers AT WORK

The Weight Watchers AT WORK program is continuously available at University Park Campus. Meets Wednesday, Sept. 13 - Nov. 15, noon to 1 p.m., in the Paul Robeson Cultural Center Auditorium. Cost: \$115 (Lifetime members \$105). HMO participants may be reimbursed for the cost of the program. Course: WEL 018.

Health Matters Series

This six-week series explores and examines various components of wellness, setting goals and finding ways to achieve them. Group meets Tuesdays, Sept. 19 - Oct. 24, noon to 1 p.m., in 118 Agricultural Sciences and Industries Building. Cost: \$30. HMO participants may be reimbursed for the cost of the program. Course: WEL 069.

Sell-out crowd

All tickets for Penn State's 1995 home football games are sold out, Bud Meredith, athletic ticket director, said.

The Nittany Lions sold more than 62,000 season tickets to the public and 20,500 more to Penn State students.

Penn State ranked No. 2 in the nation in football attendance last fall. The Lions averaged a record attendance of 96,289 for six home games, including a largest-ever throng of 97,079 that watched the Ohio State homecoming contest. On the road, Penn State played before the largest crowd ever to see the Lions perform (106,832 at Michigan) and its largest postseason crowd (102,247 in the Rose Bowl).

Research

Even in the age of the info highway, books remain great technology

These days, everyone seems to be scrambling to find new electronic venues for the printed word — electronic versions of newspapers and magazines, encyclopedias on CD-ROMS, World Wide Web “home pages” on every imaginable topic, and so on.

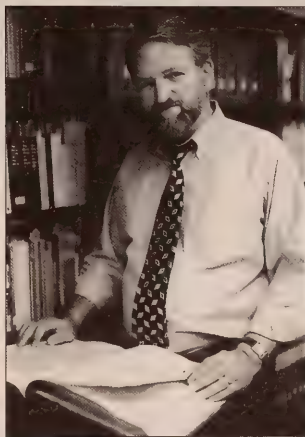
Yet the book, the simple little invention that started it all more than 500 years ago, is still great technology — and seems likely to remain so for quite some time.

“The book is one of the most marvelous inventions of man,” James L.W. West III, director of Penn State’s Center for the History of the Book, said. “It’s portable. It’s relatively cheap. It holds a great amount of information. It’s very easy to use and get around in, if it’s properly printed and outfitted with tables of contents and chapter headings and indexes and things of that sort. And finally, it doesn’t depend on any other technology or source of power. All you need is the physical object in your hands.”

For all of those reasons — and also because it’s a pleasant experience to curl up in a favorite armchair with a good thick book — Dr. West believes that books are not about to pass off the scene any time soon.

“The book as we know it is probably indestructible,” said Dr. West, who has been director of the Center and a distinguished professor of English at Penn State since 1992. “That is to say, it is almost as well adapted to human civilization as the wheel. It is a convenient, easily transported, easily consulted repository of information. There’s really nothing else that matches it.”

Dr. West says that book historians today generally limit their work to what they call the “codex” — the familiar form of the book, with paper pages and hard or soft covers and a binding of some sort along the back. But on the other



Relatively inexpensive, portable and free-standing, books are here to stay, James L.W. West III, director of Penn State’s Center for the History of the Book, said.

Photo: Greg Grieco

hand, they aren’t out there burning computer disks or smashing CD-ROM players, either.

“You can’t stop change, and there would be no point in trying to do that. Probably the revolution we’re undergoing right now with the ‘electronic word’ is comparable to the one that came about with the invention of printing. It will take a very long time for the implications of the electronic revolution to play themselves out. But I think it’s exciting,” he said.

Just last year, Dr. West said, the center brought to campus Robert Grudin, a University of Oregon English professor who has published a satiric academic novel, “Book: A Novel,” in three forms: as a hard-cover book from Random House, a paperback book from Penguin, and a computer disk from Voyager Books.

Using a computer

hooked up to a projection device, Dr. Grudin demonstrated one witty and amusing change that the electronic version brought to the book, Dr. West said. “There’s one chapter in the novel in which the footnotes get irritated at the text, and they mount a revolt. They charge like a phalanx of cavalry on the text, and they turn letters over and tear away punctuation marks and garble the syntax.”

In the print version, Dr. West said, all this is described. “But in the computer-readable form,” he said, “it’s actually done, and you can see the footnotes gather themselves together and rush the text, producing utter chaos. It’s wonderful.”

This new generation of narrative novels on computer disks or CD-ROMs allows the writer to get away from the notion of linear narrative. “In a

paper and print book, you go sequentially from page 1 to page 400 or whatever,” he said. “While you might have dislocations in time — flashbacks and things of that sort — you are still pretty much limited by the sequential nature of the prose as it comes to you in the book.”

But in “cybernovels,” Dr. West said, “you can have a radiating rather than a linear narrative. You can have a single chapter one, two different chapter two’s, and branching from those a variety of chapter three’s. And then they can double back on each other, so that at any point you ought to be able to switch over to the other track. The whole thing can circle back around on itself, so that what you’re really doing is re-exploring the possibilities of narrative and the ways in which human behavior can develop. I like it.”

Despite electronic information services and other distractions, the book will survive in some form because on one level it simply stores information — like an auto repair manual — and on another level it records the culture that produced it, stimulates the imagination, and speaks to deep spiritual needs, Dr. West said.

West says the field of book history is currently populated by an unusual mix of art historians, English professors, economists, librarians, book preservationists, antiquarian book dealers and collectors, and others.

“It’s messy, and I like it that way,” says West. “We don’t yet have departments of book history, and I hope we never do, because as soon as we do, we’ll begin to spend a great deal of time deciding who can play the game and who can’t, and what the rules are. Right now, it’s a wide open field and everybody’s playing.”

— Alan Janesch

Research



Software helps displaced workers

University researchers have developed a worker-oriented counseling tool to help displaced military base or shipyard employees find new jobs.

The tool consists of databases and software that assist a counselor in evaluating a worker’s areas of competence including knowledge, skills and abilities (KSAs), and identifying matches between those KSAs and actual or anticipated job openings. It also aids in identifying re-training needs.

Called STEP-UP, for Skills Training and Employment Program for Upgrading Personnel, the system was developed for the Philadelphia Naval Shipyard and Base which is scheduled for final closure September 1996.

STEP-UP was developed by a team headed by Robert J. Vance, associate director of the Center for Applied Behavioral Sciences, and David V. Day, assistant professor of psychology. It runs on Microsoft Access, a relational database management system, which has a Windows point-and-click format.

The system enables a worker to leave a counseling session with a list of his or her competencies, KSAs and training history that can serve as the basis of a resume tailored specifically to jobs the system identified as a match.

Pre-divorce circumstances affect child adjustment

The long-term effects of divorce on children depend on the amount of parental conflict prior to separation, a University sociologist said.

“Children from marriages where there is little pre-divorce parental conflict suffer far more than offspring whose parents fight often and severely,” Alan Booth, professor of sociology and human development, said.

Dr. Booth and his colleagues found that young adults from low-conflict homes that experienced a divorce reported less happiness, more psychological distress, fewer close friends and relatives, and lower quality in their own marital relationships than individuals whose parents quarreled bitterly before the divorce.

“Children from low pre-divorce conflict homes seem to react with shock and disbelief,” he said. “For them, divorce represents an unwelcome event, a loss of resources with no compensating gain.”

Those who escape high-conflict families through divorce do nearly as well as offspring who grow up in intact low-conflict homes. For these individuals, divorce can be a relief since it rescues them from a hostile, dysfunctional and perhaps abusive environment.

CONTINUING DISTANCE EDUCATION

New program offers convenience

The new Certificate in Writing Social Commentary offers students an opportunity to develop their writing skills and earn a Penn State certificate without ever leaving home.

Composed of seven, three-credit courses, the certificate program is available through the College of the Liberal Arts. Designed for people who want to develop their writing skills and enhance their understanding of the form and content of social commentary, all courses required for the certificate are available through the Independent Learning Program in the Department of Distance Education.

"Students can gain a great deal of influence in expanding the knowledge of the populous through learning to write about contemporary issues," said Robert Gannon, associate professor of English, who teaches one of the courses in the certificate program. Students also learn how to write query letters to publishers.

A major advantage of the program is that people can enroll wherever they are and the credits are transferable to associate and baccalaureate degree programs in many fields.

Some of the courses available in the program are English 015, focusing on writing mechanics; Philosophy 010; English 001, dealing with critical thinking; and a variety of sociology and English courses that help students develop an analytic and conceptual understanding of modern society and social affairs.

The certificate program is one of 11 offered by Independent Learning. Students receive a study guide, textbooks and other course materials through the mail, and submit their lessons by mail. Penn State instructors provide feedback, grade students' work and guide their progress.



Back in full force

Enn Colton, a freshman environmental engineering major from Cochranton, Pa., looks for textbooks along with throngs of other students in the Bookstore on the University Park Campus. The search for books is a sure sign that another semester is under way.

Photo: Greg Gnecco

Penn Staters

Z.T. Bieniawski, professor of mineral engineering, presented six invited lectures on a series of topics in Japan. He spoke at the universities of Tokyo and Kyoto and Obayashi and Taisei corporations, as well as to the Power Reactor and Nuclear Fuel Corp. of Japan.

James Lynch, professor of forest hydrology, has been elected to a one-year term as chairman of the National Atmospheric Deposition Program/National Trends Network, which oversees the collection and analysis of acid rain in the United States.

Digby D. Macdonald, professor of materials science and engineering and director for the Center for Advanced Materials, was recently elected as a Fellow of The Electrochemical Society in recognition of his contributions and service.

Ruth Ann Mears, extension agent in Clarion County, received the 1995 Outstanding Professional Award from the Pennsylvania Association of Family and Consumer Sciences.

Stanley Pennypacker, professor of plant

pathology, has been appointed to a second three-year term as treasurer of the American Phytopathological Society.

Barbara M. Shannon, dean of the College of Health and Human Development and distinguished professor of nutrition, has been elected a Fellow of the Society for Nutrition Education. The honor recognizes her "lifelong and outstanding leadership in and contribution to nutrition education."

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CARPOOLER

Looking for one person to join carpool of three from Philipsburg. Work hours are 8 a.m. to 5 p.m. Call Sue at 865-2377.



INTERCOM

September 7, 1995

Volume 25, Number 4

"Penn State serves a broad community and I want to get out and meet that community."



Scholarly activity

Angelique Deas, (left) a freshman, President Spanier and Saundra D. Johnson, director of Minority Engineering Program, fill their plates at a recent University Scholars-College of Engineering picnic at Beaver Stadium.

Photo: Greg Grieco

Spanier to crisscross state with tour of campuses

As a way of reaching out to Pennsylvanians and developing stronger partnerships with communities across the state, Penn State's new president is planning a yearlong tour that will take him to all corners of the Commonwealth.

Beginning Sept. 20, Penn State President Graham B. Spanier will embark on a tour that encompasses all of the University's 23 locations, a number of its 67 extension offices and visits to businesses, high schools and civic organizations within those areas.

The tour is part of the new president's statewide initiative to rededicate the University to the people it serves and to reinforce Penn State's commitment to its diverse constituency. The visits will also provide opportunities for citizens to express their views and increase their understanding of Penn State

"The University is an integral part of each community where it is located and we must continue to work within these communities to help solve the problems that we all face together."

— President Graham B. Spanier

and higher education in general. "Penn State serves a broad community and I want to get out and meet that community," Dr. Spanier said. "Penn State is a vital resource for many constituencies throughout the state. From our continuing education programs, to our county extension offices, to our economic development partner-

See "Tour" on page 3

University representatives testify in favor of tuition benefit

Penn State's tuition reduction program is a cost-effective way of helping Penn State employees do their jobs better and of recruiting high-quality faculty and staff. John A. Brighton, executive vice president and provost, testified Aug. 29 before a state House of Representatives select committee.

"At Penn State, our business is education," Dr. Brighton told the committee. "As such, it is imperative that our employees embrace the value of education so that they will better support the needs of the students who come here for that purpose. It is also important for us to demonstrate that we value and are willing to invest in the people who work at Penn State — invest in what they contribute to the working environ-

ment, and also contribute to their collective sense of our educational values."

In his testimony, Dr. Brighton emphasized that the advantages of the tuition discount program, although it is a small part of the overall benefits package, "far exceed the costs" of the program. He also pointed out that the largest share of the program last year — 73 percent of the grants — were used by Penn State staff and their dependents. Only 27 percent of the grants were used by faculty and their dependents.

If the tuition reduction program were eliminated, Dr. Brighton said, Penn State would incur additional costs in recruiting high-quality faculty and staff and would have to change the mix

See "Benefit" on page 2

The Board of Trustees
of The Pennsylvania State University
cordially invites faculty, staff, students, alumni and
friends of the University
to an inaugural State of the University address by

Graham B. Spanier

sixteenth President of the University
in Eisenhower Auditorium
on the University Park Campus
Friday, September 15, 1995
at 3 p.m.

An informal reception will follow immediately in
the Hetzel Union Building (HUB) Ballroom.

Parking for visitors will be available free in
designated visitor spaces, HUB or Visual Arts Building
visitor lots, or any blue or orange signed lots



Penn State encourages persons with disabilities to participate in its programs and activities. If you anticipate needing any type of accommodation or have questions about the physical access provided, please contact Karen Rupp at 865-7511 in advance of your participation or visit.

Penn State is an affirmative action equal opportunity university.

DIVERSITY

Organization celebrates first decade of service

The Center for Women Students (CWS), a unit of Student Affairs, is celebrating its 10th anniversary throughout September with a series of educational programs, documentaries and discussions, and with an open house/reception from 4 p.m. to 6 p.m. on Wednesday, Sept. 13. The open house/reception will be held in 102/120 Boucke Building. All students, faculty, staff and community residents are invited to attend the celebration.

"September is an important time for the CWS, as we mark our 10 years of contributions to the equity, safety and well-being of women students at Penn State," Sabrina C. Chapman, center director and affiliate assistant professor of sociology and women's studies, said. "We celebrate the fact that through the years, the CWS has made a positive difference in the lives of many students and influenced the collective life of the University as well."

In 1983 the Commission for Women recommended to then President Bryce Jordan that a Center for Women Students be established, with the concept of providing a central place for meeting the needs of women students. Opening in the fall semester of 1985, CWS was designed as a point of entry for women whose concerns could be handled directly or referred to appropriate units in the University or the community.

"Working within the broad focus of women's concerns, virtually all of the CWS programs and services reflect efforts to promote diversity, multiculturalism and intergroup understanding," Ms. Chapman said. The center identifies its six primary responsibilities as follows:

■ **Advocacy.** Center staff and members are advocates on behalf of all women students, bringing to the attention of the university the problems and

"September is an important time for the CWS, as we mark our 10 years of contributions to the equity, safety and well-being of women students at Penn State."

Sabrina C. Chapman
center director and
affiliate assistant professor of
sociology and women's studies

issues of women students. These include classroom environment, institutionalized sexism, sex-based discrimination, violence against women and other conditions which impede women students' personal and academic development.

■ **Information:** The center provides information about women's issues to the university and to individual students; it publicizes widely all programs and services for women and makes available current written materials about women.

■ **Educational Programs:** The center offers programs for and about women and women's issues and coordinates the offering of such programs by other groups.

■ **Services and Referrals:** The center assists students seeking help or refers them to appropriate helping agencies. CWS is a place where women students can find support and assistance from the CWS staff and from other women.

■ **Coordination with Groups:** The center works closely, cooperatively and extensively with other units and programs concerned with women, including the Women's Studies, Penn State's Commission

for Women and the Women in the Sciences and Engineering Institute (WISE).

■ **Liaison with Campuses:** The center is a resource for Penn State's other campuses on matters concerning women students.

"Our work is challenging because relationships between women and men have, more often than not, been characterized by asymmetry, by power imbalance and by the absence of mutuality/reciprocity," Ms. Chapman said. "Among our most difficult issues have been sex-role stereotyping, sexual harassment and sexual abuse/assault."

"The end result often has been estrangement, polarization and victimization. However, we envision a different way of interacting as women and men strive toward gender reconciliation through social justice."

CWS is located in 102 Boucke Building and is open from 8 a.m.-noon and 1 p.m.-5 p.m., Monday through Friday. The CWS Resource Room is available daily for gathering, studying and meeting purposes and is used throughout the year for educational programming, including film and discussion events, open houses and speaker receptions. The CWS also has an extensive collection of bibliographic and written materials on women's topics and issues.

CWS staff members include:

Ms. Chapman, director and affiliate assistant professor of sociology and women's studies; Patricia Johnstone, assistant director, sexual assault education; Susan D. DePonte, staff assistant; Laurie L. Cohen, office assistant; and Amanda L. Collings, graduate assistant.

For more information about the CWS call (814) 863-2027.

Benefit

continued from page 1

of its benefits package. "There is no benefit offered to our employees, in my view, that is more effective in terms of the value to the University," he said.

Along with representatives of other universities, Dr. Brighton testified last week before the five-member House Select Committee on Higher Education, which in late July began a series of hearings on various practices of colleges and universities. The committee's chairman, state Rep. John Lawless (R-Montgomery County), believes that tuition reduction programs should be eliminated or drastically reduced.

Rep. Lawless claimed that 99 percent of his constituents believe tuition reduction programs should be ended. "It's time to do away with these freebies," he said.

Rep. Lawless has also called for ending tenure, curtailing sabbatical leaves, requiring faculty to work a full 12-month year at their current salary levels, and reducing travel by university personnel (*Intercom*, Aug. 3).

Dr. Brighton and the other university representatives emphasized that tuition discount programs help attract high-quality faculty and staff. Because Penn State's quality and reputation is determined "first and foremost" by its faculty, Dr. Brighton said, the University "must do everything it can, in an increasingly intense, competitive environment to succeed in recruiting the best faculty. This program helps us to do that."

The program is also highly valued by the staff, he said. Generally, our staff salaries at the University are lower than those in the private sector. So the tuition reduction assists us in recruiting and retain-

FACTS AND FIGURES ABOUT TUITION DISCOUNTS AT PENN STATE

■ Penn State employees, their spouses and their unmarried children are eligible for a 75 percent discount on tuition. Because Penn State cannot offer salaries that are competitive with those of the corporate world, this benefit helps Penn State attract and retain high-quality employees and helps boost the quality of the Commonwealth's current and future work force.

■ The benefit is not portable to other institutions.

■ More staff than faculty use the tuition discount program. In 1994-95, more than two-thirds of the dollar value of the tuition discount (67.4 percent) benefited dependents of non-academic employees. Only about one-fourth of all faculty used the benefit either for themselves or for their dependents.

■ Only 12.1 percent of the dollar value of the tuition dis-

count in 1994-95 was used by Penn State employees themselves. Most of it — 87.9 percent — was used by dependents.

■ More than half of the people using the tuition discount program are children of Penn State employees. In 1994-95, of all 3,699 individuals using the tuition discount program, 2,051 were children of Penn State employees. Only 412 were spouses.

■ Although tuition discounts do represent \$8.6 million that Penn State would otherwise receive in tuition payments, extending the benefit doesn't have that large an impact on direct costs. If the benefit were removed, it would cost Penn State — in salaries that would have to be boosted substantially to attract and retain highly qualified faculty and staff.

ing a quality staff for the University in a cost-effective manner."

Tuition reduction and waiver programs are common in higher education and in the private sector, Dr. Brighton said. "In fact, a 1983 study of Fortune 1000 companies found that 96 percent had tuition reimbursement plans. These companies represent almost one-quarter of the private-sector labor force."

When the committee chairman said that private firms in the state do not extend tuition reimbursement benefits to their employees' spouses and dependents, Dr. Brighton suggested that the committee "encourage them to do just that." Such a change in private-sector and state employee benefits packages could have great advantages for their employees and for the entire commonwealth, Dr.

Brighton suggested.

Other higher education institutions represented at the Aug. 28-29 hearing were Temple University, the University of Pittsburgh, Lincoln University, the State System of Higher Education and the American Association of University Professors. Also testifying were representatives of the state auditor general's office, the Wissahickon Taxpayers' Association and the Colonial United Taxpayers' Association.

Additional hearings are also planned, including one this fall on teaching loads and travel. Rep. Lawless believes that faculty don't spend enough time in the classroom, and that college and university travel costs are excessive.

President Spanier moves into high gear

Spanier watchers may think he's everywhere these days, but actually, his calendar shows a thoughtful balance of learning, listening, advising and making University-wide decisions. Only one week into his tenure, Dr. Spanier has already met with advisory groups from most of the University's constituencies—USG and the student leadership, alumni groups, community organizations, budget officers, legislators and faculty.

"In our Faculty Advisory Committee meetings, the president has made it clear that he is committed to a collegial relationship with the Faculty Senate and that he does not want to have a "we-they" relationship between faculty and administrators," Peter C. Jurs, professor of chemistry and chair of the Faculty Senate, said.

Dr. Spanier met twice with the Faculty Advisory Committee this summer during his transition period and began regularly scheduled meetings last week. He will meet with FAC on a six-week schedule throughout the fall and will begin monthly meetings in January. Members of the FAC include the Senate past-chair, the chair, the chair-elect, the Senate secretary and three members elected by the Senate.

"Our discussions, which are focused on academic issues, have been quite frank, open and wide-ranging. He is doing a lot of listening and wants to hear what is on the minds of the faculty. As the University community knows, the president is committed to E-mail and has an open door policy. Should the need arise, we will feel comfortable bringing issues to his attention at any time," Dr. Jurs said.

Dr. Spanier is scheduled to address the opening session of the Faculty Senate on Sept. 12.

Other faculty initiatives by the president are a series of lunch meetings with Evan Pugh Professors and other distinguished faculty and meetings with college executive committees, followed by informal faculty receptions. So far, he has met with Dean J.D. Hammond of The Smeal College of Business Administration faculty and is scheduled to meet with Dean John A. Dutton and the College of Earth and Mineral Sciences faculty next week.

"Everyone wants to meet Dr. Spanier," Carolyn Dolbin, administrative assistant to the president who keeps his calendar, said. "He has made it a priority to meet with the whole spectrum of Penn State. In addition to meeting with Penn State constituents, such as attending the state Senate Democrats leadership dinner next week and meeting faculty and student groups, he has scheduled time to talk to reporters and former colleagues. He is also getting settled into the

ON TODAY'S AGENDA ...

- Centre County United Way Kickoff, keynote speaker
- Meeting with athletic coaching staff
- Lunch with several faculty members
- Meeting with campus architect
- Discussions with *Daily Collegian* reporter
- State College-Bellefonte ninth-grade football game
- College of Communications Board of Visitors and Alumni Council reception

community and saving some time for his family."

Dr. Spanier was the keynote speaker for the Centre County United Way today and met with Heritage I, a group of area Realtors. He also had a visit from campus day care children last week,

who welcomed him with cards and cookies. In between, he made time to attend school orientation meetings for his children, Brian and Hadley, and fit in three games of racquetball with friends.



On the move

Joan Lisle, project assistant to the Pennsylvania Commission on Sentencing in the Department of Sociology, and Graham Spanier prepare to do battle on the racquetball court. Dr. Spanier is a racquetball enthusiast.

Photo: Greg Grieco

er education will result in erosion of the state's most vital resource — an educated citizenry and a well-prepared work force."

As Pennsylvania's land-grant institution, founded in 1855, Penn State has conferred more than 400,000 degrees. There are more than 330,000 active alumni and Penn State boasts the largest dues-paying alumni association in the country with more than 130,000 members.

Dr. Spanier hopes to promote a spirit of cooperation throughout Pennsylvania and plans to meet with alumni, community and business leaders, parents, high school students, members of the agricultural community, and faculty, administrators, staff and students at Penn State locations across the state.

This Pennsylvania initiative is similar to a program Dr. Spanier undertook as chancellor of the University of Nebraska-Lincoln when he blanketed the state of Nebraska.

The statewide tour is only the first component of Dr. Spanier's outreach initiative. Other components still being worked out include a legislative forum to discuss serious issues in higher education and listening sessions in communities around the state.

His tour schedule for the Fall Semester follows:

- Sept. 20 — Fayette Campus (Fayette County)
- Sept. 29 — DuBois Campus (Clearfield County)
- Oct. 12 — Mont Alto Campus (Franklin County)
- Oct. 25 — Penn State Erie, The Behrend College (Erie County)
- Nov. 2 — Delaware County Campus (Delaware County)
- Nov. 8 — Hazleton Campus (Luzerne County)
- Nov. 9 — Schuylkill Campus (Schuylkill County)
- Nov. 21 — Altoona Campus (Blair County)
- Dec. 1 — Beaver Campus (Beaver County)
- Dec. 7 — Shenango Campus (Mercer County)

— Lisa M. Rosellini

Turn

continued from page 1

ships with Pennsylvania businesses, we touch a tremendous number of lives and provide opportunities and hope to a vast population."

As an example of some of Penn State's more prominent programs, Dr. Spanier cites Penn State's involvement in 4-H, which reaches more than 150,000 youths in the state. In 1994, through its Cooperative Extension Offices, the University had more than 1.1 million face-to-face contacts with people, and more than 3 million people in Pennsylvania are served by programs originating in Penn State's colleges and specialized units. In addition, Penn State programs and services benefit more than 3,000 public, business and industry organizations across the state.

"These programs and many others like them serve people well beyond our 'campuses,'" Dr. Spanier said. "The University is an integral part of each community where it is located and we must continue to work within these communities to help solve the problems that we all face together.

"The people of this state have a stake in this institution," he said. "Erosion of support for high-

Throughout history, presidents give strong leadership message

From the lecture-like speech of Evan Pugh on the rigors of responsibility given to a sparse student body in 1860 to the challenges posed by Joab Thomas to turn the crises of the 1990s into the opportunities of the '90s, the State of the University Addresses at Penn State have been as varied and intriguing as the University's 15 presidents themselves.

Making his inaugural State of the University Address on Sept. 15 will be the 16th man to lead the University — Graham B. Spanier. Looking back over history, he could have a tough act to follow.

State of the University Addresses have long been a tradition at Penn State and most other universities across the nation. Seen as a rallying point for members of the university community, State of the University Addresses take many forms from "vision" speeches to "agenda" speeches. As time passes, some are lost forever to the archives, but some are so memorable they're destined to be recalled for years to come.

Like the inaugural address given by John M. Thomas, Penn State's ninth president who served from 1921-1925.

Before a crowd that included Gov. William Sproul, representatives from 120 colleges and universities and the chief justice of the Pennsylvania Supreme Court, John Thomas dropped a bombshell that would mark the beginning of the end of his career as president of what was then The Pennsylvania State College.

In a prophetic speech that has been called everything from "bold" to "stirring" to "tactless," John Thomas flatly stated that The Pennsylvania State College should be converted to the state university. His words were the equivalent of a verbal snub to the other institutions across the state and his daring speech lobbed a political hot potato into the laps of state legislators.

"The time has now come when this college should frankly assume the name and function which its present strength and service justify, and become in name as it is now in fact, the Pennsylvania State University," he said. "There is no example in the history of American higher education, of a large and successful state university built upon a private foundation."

In this learned company I make that statement without fear of challenge," he said. "You cannot inject the quality and genius of the American state university into an old established institution fathered by private motive and developed under private control."

Despite the fact that the Penn State Alumni News of that month reported that John Thomas' statements were received "with great enthusiasm by the hundreds of students and alumni who attended," it was not so with his opponents in the state Legislature and elsewhere. The four years of his tenure as legislators fought his every request. In frustration, John Thomas resigned his post to become president of Rutgers University, just four years after delivering his unforgettable message — a visionary statement that took 32 years to accomplish.

"State of the University Addresses are often used by presidents to send a strong message of leadership to both internal and external audiences," Rex Hebert, director of public affairs for the National Association of State Universities and Land Grant Colleges, said. "Given most often at the beginning of an academic year, it is a serious attempt to imbue a spirit of cooperation. Like the beginning of a football game at the kickoff where everyone stands up and yells 'Go team.'"

Much like the 1984 speech presented by Bryce

WHERE TO CATCH THE ADDRESS

Arrangements are being made for viewing the live broadcast (3 p.m. Friday, Sept. 15) of President Spanier's State of the University Address at the following Penn State locations:

ABINGTON-OGONTZ — Conference Center

ALLENTOWN (at Fogelsville) — Room 111-5 & 6.

ALTOONA — Community Arts Center Building Room

BEAVER (at Monaca) — Laboratory Classroom Building Auditorium.

BERKS (at Reading) — Perkins Student Center Auditorium.

DELAWARE COUNTY (at Media) — Commons Building, large Conference Room.

DuBOIS — Hiller Building Auditorium.

ERIE, THE BEHREND COLLEGE — Library Building Studio.

FAYETTE (at Uniontown) — 103 Eberly Building.

GREAT VALLEY (at Malvern) — Room 129-130.

HARRISBURG — Olmstead Building Auditorium.

HARRISBURG EASTGATE CENTER (downtown) — Room 214

HAZLETON — Chestnut Cottage Conference Room

HERSHEY MEDICAL CENTER — College of Medicine Lecture Room C.

MCKEESPORT — Room 117 Frable Conference Center.

MONT ALTO — Room 108 General Studies Building.

NEW KENSINGTON — Campus Art Gallery.

SCHUYLKILL (at Schuylkill Haven) — Classroom Building Conference Center.

SHENANGO (at Sharon) — Room 215 Sharon Hall.

WILKES-BARRE (at Lehman) — Fortinsky Aud., Bell Atlantic Center for Technology Building.

WORTHINGTON SCRANTON (at Dunmore) — Study/Learning Center "Quiet Lounge."

YORK — Conference Center.

Jordan, which sought to pull faculty and staff together in the quest for more state funding. In his speech, he told members of the University community to "be prepared to take some risks."

"We must not only pursue increased funding from the public and private sectors, but also manage the institutions creatively and efficiently," he said. "The degree to which we are successful in our own management will I believe, have an effect on the levels of support we will earn from the state, the federal government and our alumni and friends."

"An address to the entire university community that in essence lays out a plan for the ongoing of the university and its improvement tends to bring people's minds back to where the university should be heading," Dr. Jordan, who served as Penn State's 14th president, said. "It also enables the speech giver to focus on his own thoughts about what ought to happen."

Dr. Jordan, whose tenure as president lasted from 1983-1990, said that it's "good discipline" for busy university presidents to force themselves to think in-depth about what direction the institution should take.

One of his predecessors, Eric Walker, Penn State's 12th president, kicked off his 14-year tenure



Eric Walker, Penn State's 12th president, giving his 1957 inaugural address. Dr. Walker discussed the need to expand the University's research capabilities.

by mapping out a plan to increase enrollment and boost research "in every area of the educative process."

"Preparation for a speech of this magnitude and importance forces you to really contemplate and plan where your institution should be going," Dr. Jordan said. "It is invaluable and people can return to that speech and use it as a blueprint for action."

And that's the key, says Terry Denbow, vice president for University Relations at Michigan State. Speeches of this nature should not only reflect on the past, but should look to the future and contain some "nugget" of information about the path the university plans to take.

Mr. Denbow, who has seen his share of State of the University Addresses, is a former writer/editor in Penn State's Department of Public Information, and also served under Joab Thomas at the University of Alabama before going to MSU.

"It's got to have news in it. There must be something in it that will make people come to hear it because they're afraid they're going to miss something if they don't," he said. "Those are the most effective speeches."

That sage advice was followed in 1991 by Joab Thomas in his first State of the University address when he not only outlined Penn State's most pressing problems, but also announced several new initiatives to back his commitment to improving undergraduate education.

Dr. Thomas, Penn State's 15th president, was not shy about pointing out that Penn State faced several problems, among them a space crunch and a serious decline in state support.

"The most obvious and serious obstacle ... is limited space. As an emergency measure, I propose to use the bonding capacity of the University along with private fund-raising activities to initiate a few projects immediately. Whenever possible we hope to use funds from bonds and private fund-raising activities to leverage additional dollars from both the state and other sources."

Under Joab Thomas' tenure, the University undertook more than \$314 million in construction.

In that same address, Dr. Thomas also outlined his plans for boosting the teaching-learning environment, by offering several incentive grant programs that are still in place today.

"My sense is that university presidents from the beginning of time have stood up before their campus communities and delivered a message of leadership and the message that they want their academic community to speak with one voice, share the same goals, same values and same culture," Ms. Hebert said. "And the university community has listened and if the message was good, rallied behind their president."

The University community is invited to attend the upcoming State of the University Address. See page 1 for details.

— Lisa M. Rosellini

Awards

'Weather Pages' is top Web site

The College of Earth and Mineral Sciences' "Weather Pages" on the World Wide Web has been recognized as a "Top 5 Percent Web Site" by Point Communications Corp. in their Point Survey.

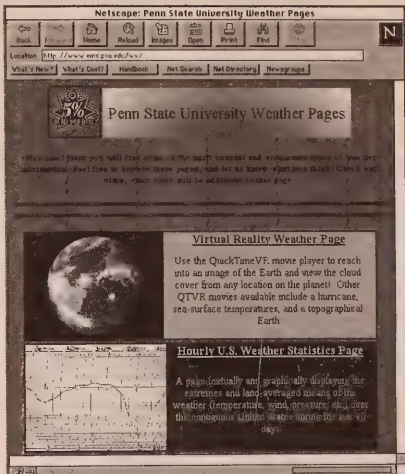
Point Communications surveys thousands of Web sites, rating them on content, presentation and experience on a scale of 0 to 49. The "Weather Pages" received a 38 in content, a 28 in presentation and a 36 in experience. Experience rates the feelings of the person viewing the site rather than the credentials of the site owner.

■ **Robert Hart**, recent graduate and incoming graduate student in meteorology, is responsible for the "Weather Pages" site at URL <http://www.ems.psu.edu>.

■ **Tim Robinson**, instructor in the College of Earth and Mineral Sciences and designer of its Web pages, notes that being named among the top 5 percent of all Web sites is a significant recognition.

Statistics for the EMS home page for the most recently available week indicate 52,396 requests for documents from the site.

"The 10 most visited pages of the EMS World Wide Web site are all weather pages," Mr. Robinson said.



Professor honored with Noll excellence award

Peter Jurs, professor of chemistry, is the winner of the 1995 C. I. Noll Award for Excellence in Teaching.

Sponsored by the Eberly College of Science Student Council and Alumni Society, the award is the college's highest honor for undergraduate teaching. The winner is chosen by a committee of students and faculty from nominees suggested by students, faculty and alumni.

Dr. Jurs has taught courses at Penn State ranging throughout the chemistry curriculum. He is particularly well known for aggressively promoting a technique to free students from excessively note taking in the introductory chemistry course required of science, engineering and related majors. Students consistently rate him among the University's most highly ranked teachers and comment on the clarity, organization and interest of his lectures; on his relevant and interesting in-class demonstrations; and on his enthusiasm, humor and commitment to students.

Dr. Jurs has been an active participant in the planning and implementation of change in the undergraduate chemistry program.

Dr. Jurs joined the Penn State faculty as an assistant professor of chemistry in 1969 and was promoted to associate professor in 1972 and to professor in 1978. He served the Department of Chemistry as assistant head for graduate education from 1987 to 1989, and was named assistant head for undergraduate education in July 1995. He has been a member of the University Faculty Senate since 1979 and now serves as its chairman.



Peter Jurs

In his research, he applies computer methods to chemical and physical problems involving the relationship of a material's chemical structure to its physical and analytical properties.

His work has applications in pharmaceuticals, herbicides, pesticides and olfactory stimulants, and could lead to an understanding of the toxic, mutagenic or carcinogenic effects of many chemical compounds. He has mentored approximately 40 M.S. and Ph.D. recipients and also has been a research adviser for several undergraduate students, three of whom have co-authored research publications with him.

Dr. Jurs earned a bachelor's degree in chemistry at Stanford University in 1965 and a doctoral degree in chemistry at the University of Washington in 1969. He was a visiting associate professor of chemistry at Stanford University in 1975 and 1977 and served as director of the National Science Foundation Analytical and Surface Chemistry Program from 1983 to 1984.

He has held numerous consultancies and memberships on editorial and advisory boards and currently is a member of the editorial advisory boards of *Intelligent Instruments* and *Computers*, *MedTech* and the *Journal of Medicinal Chemistry*. He also is a member of the McGraw-Hill Series in Advanced Chemistry advisory board and the Chemical Abstracts Service research advisory council. He has served as director of the Chemical Analysis Program of the Chemistry Division of the National Science Foundation. He was honored with the Merk Award for Faculty Development in 1970 and the American Chemical Society Award for Computers in Chemistry in 1990.

He is the author or co-author of approximately 200 scholarly publications, including a textbook titled *Computer Software Applications in Chemistry*, which is an outgrowth of one of the new courses he developed and taught at Penn State.

Mathematics professor wins Lester Ford award

The Mathematical Association of America has honored William C. Waterhouse, professor of mathematics, with the 1995 Lester R. Ford Award. The award is given annually to the authors of the best expository articles published in the *American Mathematical Monthly*.

Dr. Waterhouse was selected for his paper titled "A Counterexample for Germain," which appeared in the February 1994 issue of the journal. The paper, which has been described as a "historical and mathematical detective story," concerns correspondence during the beginning of the nineteenth century between two mathematicians, one a man and the other a woman who originally wrote under a male pseudonym to hide her female identity.

Instructor cited for excellence in teaching

Renee Gittler, an instructor in chemistry, has been awarded the 1995 Allentown Campus Teaching Excellence Award. Each year a faculty member of the campus is recognized for outstanding teaching. Ms. Gittler is a senior lecturer in chemistry and has taught at Penn State Allentown for more than 20 years. She is chairperson of the faculty advisory committee and past officer of the Allentown Campus Senate.

Three in Physical Plant receive spirit award

Three employees in the Office of Physical Plant have received the "Spirit of Physical Plant Award." Their names are now permanently engraved on a plaque in the front lobby of the Physical Plant Building.

The winners are: Paul Carothers in the technical service category, with honorable mentions going to Keith McWilliams and Gary Green. Mable Dolan won the janitorial category, with Martha Lansberry and Burma Gummo receiving an honorable mention. Greg Andersen won the state category and honorable mentions went to Michael Reese and Kenneth Johnson.

The "Spirit of Physical Plant Award," established in 1988 by J. C. Orr and Sons, is presented to OPP employees who are judged to best exemplify loyalty, professionalism, integrity, dedication and respect for OPP and the customers they serve.

Nominations for the award are solicited from the entire University community. This year, 109 nominations were received.

Appointments

Mont Alto administrator takes on additional duties

William Curley, Penn State Mont Alto's director of continuing education, now wears two hats at the campus, having recently been promoted to director of business services as well.

In his dual role, Mr. Curley will continue as director of continuing education, supervising a staff of three to deliver Penn State undergraduate and graduate credit courses, non-credit and certificate-level programs, professional development and work force training for area businesses and school districts. Additionally, he supervises a staff of 15 employees responsible for maintenance and operation of a physical plant of 13 buildings as well as



William Curley

upcoming projects such as the renovation of Emmanuel Chapel and construction of new pedestrian and vehicular bridges at the campus entrance.

A Penn State alumnus, Mr. Curley holds master's and bachelor's degrees in adult education and rehabilitation education, respectively. Before coming to Mont Alto in 1990, he served as area representative for Penn State's State College Area Continuing Education office and as conference coordinator at the University's Keller Conference Center.

He chairs the Mont Alto campus marketing team and the administrative awards committee; he co-chaired the Continuous Quality Improvement team; and serves on the strategic planning and budgeting and enrollment planning teams.

Mr. Curley also serves as a resource for the Franklin County Health Care Consortium and is a member of Chambersburg Rotary.

University Relations appoints interim executive director

Bill Mahon, director of the Department of Public Information, has been named interim executive director of University Relations, by President Graham Spanier.



Bill Mahon

Mr. Mahon, who has worked at the University for 11 years, will oversee the departments of Public Information, Publications, Marketing and Development Communication and Special Projects. The appointment is effective Sept. 1, and will continue while a national search takes place to fill the position of executive director of University Relations. Mr. Mahon is past president of the College and University Public Relations Association of Pennsylvania, an organization representing approximately 115 institutions.

Mr. Mahon has a master's degree in speech communication from Penn State. He is a frequent speaker and has served as a conference chair for the Council for the Advancement and Support of Education, and is one of the founders of the Association of Opinion Page Editors.

Editorial assistant joins University Libraries

Pamela T. Peterson has been appointed editorial assistant in the University Libraries Public Information Office. Peterson is responsible



Pamela T. Peterson

for writing and designing various publications and for writing and distributing press releases.

Ms. Peterson holds a bachelor of arts degree in print journalism from Penn State and for the last four years has worked as a staff assistant to the director of alumni and public relations in the College of Communications.

Ms. Peterson's University service includes being a volunteer member of the 1993 Penn State United Way Publicity Committee and an assistant team leader of the 1994 Penn State United Way Campaign.

Faculty/Staff alerts

Library searching service hours for fall

Beginning Monday, Sept. 11, and continuing through Wednesday, Dec. 13, the University Libraries Do-It-Yourself Searching Service will be available Monday and Wednesday evenings, 6 to 9 p.m., and Sunday afternoons, 2 to 5 p.m., in 105 East Patee Library.

This service gives students, faculty and staff a chance to do their own computer searching using a choice of more than 150 dial-up databases in a variety of subjects. Self-study guides provide users with the basic skills needed to do searches, but for best results users are advised to consult a librarian in their subject area. The search process is similar to CD-ROM searching but more databases are available, and it provides more years of coverage. For Penn State students, faculty and staff many searches are provided free of charge.

For more information, contact the Patee Information Desk at (814) 865-2112 or the Search Service Coordinator at (814) 865-3705.

Student Fulbright deadline approaching

The deadline for seniors and gradu-

ate students to submit an application for a Fulbright grant is Sept. 22. Applications for the grants, which support one year of teaching, study or research in the country of the applicant's choice, should be delivered to the Undergraduate Fellowships Office, 312 Willard Building, on the University Park Campus. For more information, call (814) 863-8199.

Fellowship applications

Applications for the Institute for the Arts and Humanistic Studies Faculty Research Fellowships, for which research or creative work will be accomplished from January through June 1996, are due at Hilsen Cottage by 5 p.m. Monday, Oct. 2. For more information or a copy of the guidelines, call the institute at (814) 865-0495.

Classroom communication

There are now three avenues available to faculty, staff and students to communicate maintenance issues, questions, comments, special requests for improvements and to share information related to classroom environments at Penn State. A summary of the communication services available,

purpose of each and direction for use follows:

Classroom Hotline

Call: 863-0000

E-mail: opps@cas

This hotline is manned 24 hours each day by the Service Desk at the Office of Physical Plant to accept information about maintenance deficiencies that need immediate attention in University Park classrooms.

Classroom Listserv

E-mail: l-ucic@psuvm.psu.edu

This listserv is available to faculty, students and staff to communicate any issues, questions, comments, special requests and to share information related to classroom environments with members of the University-wide Classroom Improvement Committee (UCIC).

University-wide Classroom Improvement Committee Office

Call: (814) 865-4402

Write: Deborah L. Howard, 209 Physical Plant Building, University Park, PA 16802. Faculty, staff or students are encouraged to contact the secretary of the UCIC with questions, concerns and special requests related to classroom improvement plans. Formal requests for minor renovations can be forwarded by faculty or staff members for consideration by the UCIC. Requests will

be reviewed by the UCIC on a monthly basis.

Enlightening lunch

A brown-bag wellness series meets every other Thursday from noon-1 p.m. in the Living Center (110 Henderson Building). There is no cost. To register for the following events, contact Jan Hawbaker at 865-3085 or JQH3@psuadmind.

Next in the series:

■ Real meals for real (busy) people

If you are sometimes so busy that you feel like you "can't even think," much less prepare an evening meal, then this Sept. 14 discussion is for you. Learn how to prepare nutritious and flavorful meals with a minimum of time and effort (including clean up). Tips about shopping and storing food also will be discussed. Course: WEL 063

■ AIDS Memorial Quilt

The AIDS Quilt will be on display in Recreation Building from Sept. 22-24. To learn more about the history of the quilt, come to this Sept. 21 program in 110 Henderson Building (The Living Center). Quilters from the Centre County Quilting Project will also describe their experiences with sewing for the quilt. Course: WEL 015



community

A special section

Fall 1995

"Under my watch we will not tolerate episodes of racial, religious or sexual discrimination or harassment."

— President Graham Spanier

President to build on already-strong commitment

As I begin my term as president of Penn State, I'm encouraged by signs of increasing diversity at the University—including significant increases in enrollment of people of color, greater outreach efforts in the Philadelphia area, programs aimed at retention, diversity in our alumni groups and a growing emphasis on international programs.

Penn State is committed to respect for people as individuals, something that is essential for our University today. Yet all institutions, no matter how successful, need to strengthen their efforts toward cultural diversity, sensitivity and understanding. I intend to lead the way at Penn State. I want to assure all in the Penn State community that under my watch we will not tolerate episodes of racial, religious or sexual discrimination or harassment.

I want the University to be more human and compassionate. Intolerance toward people who are perceived to be different from ourselves can profoundly interfere with and erode efforts to increase the level of humanity at a university.

What can we do to ensure that the University celebrates diversity? First, we must make such efforts an institutional priority. That's where leadership is key. Administrators must really care about the University's students, faculty and staff, and through their policies and their actions they must demonstrate their beliefs to everyone on campus.

Similarly, faculty can convey an appreciation of diversity in their classes and in their many other interactions with students. Students can help each other learn to respect the differences among people who they encounter in classrooms, residence halls and their daily interactions on campus and in the local community.

We can all set a good example on the job and in our personal lives. We can all work harder at being more human and more accessible, at attending events that celebrate diversity and at making friends with people who are different from us. A good starting point to an open and friendly campus is to make sure on a one-to-one basis that we respect and care about the people we encounter every day.

Diversity presents opportunities that will enrich our lives enormously.

Graham Spanier

Graham Spanier



University President Graham Spanier, who attended several orientation week events at the University Park Campus including a pep rally for the football team, has made strengthening the University's commitment to diversity one of his goals.

Photo: Greg Gnieco

Philadelphia Extension works with 250,000 annually

It has the highest percentage of minority participants of any University program.

It focuses on teaching agricultural sciences in the inner city.

It is Penn State Cooperative Extension in Philadelphia.

"We are touching some 250,000 people annually in Philadelphia through Cooperative Extension programs," said **Elmore Hunter**, Philadelphia County Extension agent and director of community relations.

"We offer a wide variety of programs, including our nationally recognized Urban Gardening Program, the 4-H Youth Program, the Expanded Food and Nutrition Program, Family Living Program and our Entomology Service.

"Interest continues to grow in the city. And, with a larger staff, we could reach even more people."

The Cooperative Extension Office, which currently has 20 staff members, is in the midst of moving

to the University's new Philadelphia office in the Center for Human Advancement at 46th and Market streets. The Penn State Community Recruitment Center recently completed its move to that location.

"We are looking forward to the move," said **Ermine Laud-Hammond**, interim director of the Philadelphia Cooperative Extension Office. "In addition to giving us greater visibility, the move will enable us to work closer with the Community Recruitment Center staff. Some of the youngsters in our 4-H program are potential University students and we will work toward identifying them."

One of Cooperative Extension's most visible programs in the city is the Urban Gardening Program, a federally-funded program established in 1977. Philadelphia was one of six cities targeted for the program, which is designed to turn

Equal opportunity plan shows diversity at work

Penn State's commitment to diversity and its support of diversity-related activities are detailed in the University's Plan for Equal Opportunity submitted to the Pennsylvania Department of Education.

More than 300 programs were conducted by colleges, departments and other units during the 1994-1995 academic year.

Following are some highlights:

One of the major initiatives of the Office of the Vice Provost for Educational Equity was full implementation of the first strategic planning process for diversity at Penn State. Each college and major non-academic unit was required to develop a preliminary and final strategic plan for diversity.

■ ■ ■

A new five-year plan, which will be in achieving equal opportunity, is being developed.

■ ■ ■

The University's Equal Opportunity Planning Committee (EOPC) awarded a total of \$430,219 for special activities in the following seven major program categories:

> **Faculty/Staff Development** (Programs included Youth Professional Institute; HIV/AIDS Spread Facts Not Fear Workshops; Minority Recruitment and VITA Bank.)

> **Gay, Lesbian & Bisexual Equity** (Programs included Colloquium Series; Lesbian, Gay and Bisexual Issues in Higher Education; Gay, Lesbian and Bisexual Equity at Penn State Erie, The Behrend College; Gay, Lesbian & Bisexual Resource Directory.)

> **Graduate Recruitment/Retention** (Programs included Graduate Minority Retention Fund; University Minority Graduate Recruitment, Retention and Professional Development Program; Recruitment and Retention of Medical and Graduate Students.)

> **Multicultural Education** (Programs included Cyril Griffith Speaker Series; Diversity Lecture Series; Crosscultural Americans and Germans in the Atlantic World;

Interest in Lambda alumni group is growing

Response to the Penn State Alumni Association's Lambda Alumni Interest Group (AIG) has been greater than organizers hoped.

The Lambda Alumni Interest Group for Penn State Lesbian, Gay and Bisexual Alumni and Their Allies and Friends was officially approved as the association's fifth Alumni Interest Group in September 1994.

"Our first official function was a reception at the 1994 Arts Festival in State College," says Kyle Richards, one of the group's organizers "and we had more than 60 people attend a tailgate for Homecoming 1994."

"There has been an enthusiastic response to the group and we hope to expand and reach a broader audience even though we're currently having trouble keeping up with the response since I'm doing all of the data base inputting on my personal computer."

According to Mr. Richards, there has been interest from gay and lesbian alumni in interconnecting with the University for some time, but there were roadblocks in terms of getting information to alumni.

"Once the Alumni Association's interest group structure was formed," he said, "it was mechanism that gave us a way to get the ball rolling. At that point, a group got together, developed a constitution and got the required number of signatures for approval by the Alumni Association."

According to the group's constitution, the purpose of Lambda Alumni shall be:

A. To promote the Pennsylvania State University among prospective and current students, alumni and friends;

B. To promote the general welfare and self-affirmation of lesbian, gay and bisexual Penn State students and alumni; and

C. To promote the interaction between and among lesbian, gay and bisexual alumni and students and their allies and friends.

The name of the organization is taken from the Greek letter Lambda.

"Lambda was adopted as a symbol of liberation and movement by the Gay Activist Alliance in 1970," Mr. Richards said. "Since then, it has become an international symbol of pride for lesbian, gay and bisexual people. We selected it as our name because we wanted to be inclusive and use a name that would be very identifiable in the gay and lesbian community."



Kyle Richards, left, one of the organizers of the Lambda Alumni Interest Group, and Diane Ryan, Alumni Association associate director for alumni relations, are happy with the growth of alumni interest groups.

Photo: Greg Gieco

"We envision Lambda as being a means of allowing lesbian, gay and bisexual alumni to reconnect with the University. We are trying to facilitate those who want to stay in touch with Penn State and want to reconnect with the lifestyle while students."

"A more important goal is to effect change and to improve the climate for gay, lesbian and bisexual students, faculty and staff."

The group elected a board of directors in the spring. It is scheduled to meet for the first time this month and elect a slate of officers.

According to Diane Ryan, Penn State Alumni Association associate director for alumni relations, the establishment of Alumni Interest Groups by the association has been highly successful.

"The Alumni Association introduced the commission on Sexual and Ethnic Diversity, Commission for Women and the Committee on Lesbian, Gay and Bisexual Equity."

"While the Lambda group provides a means of interacting, it also is another voice to express concerns of lesbian, gay and bisexual alumni of Penn State," he said.

"We are Penn State too. We are trying to find our voice. The Lambda group is one means of doing that."

are doing it. The interest groups allow alumni to affiliate and interact with people they were associated with in activities as students. Our whole reunion program some day may be driven by these affiliations. We are redirecting staff to work with these groups. Cheryl Stringer recently has been appointed as coordinator of Alumni Interest Groups."

"Eight interest groups have been approved and are active. They are Lion Ambassadors, Lions Paw, African-American, Varsity S, Lambda, Research and Graduate School, Parni Nouns and Residence Assistants. Four others — Undergraduate Student Government, Cheerleaders, Interfraternity and Latino — are slated to go before the Alumni Council this fall for approval."

"The groups have different missions," Ms. Ryan said, "and many are driven by current students who want interaction with alumni. The concept allows us to attract alumni who have not been interested in our traditional affiliations. We want to harness the power of our alumni network, and the AIGs are helping to make that happen."

The Lambda group currently is focusing on the creation of a scholarship fund.

"It's not hard to see how such alumni can give back to the University," Mr. Richards said. "We'd like to focus on those who would want to give back to Penn State by creating a scholarship for a student who demonstrates a commitment to improve the climate and who combats homophobia."

"I really do see a scholarship being established. We have already gotten some contributions and I can see an endowment being created."

Mr. Richards, a 1992 Penn State graduate with a B.S. degree in environmental resource management, currently is enrolled in the M.Ed. program in counselor education. He also is working in the office of James B. Stewart, vice provost for educational equity, providing staff support for the Commission on Sexual and Ethnic Diversity, Commission for Women and the Committee on Lesbian, Gay and Bisexual Equity.

"While the Lambda group provides a means of interacting, it also is another voice to express concerns of lesbian, gay and bisexual alumni of Penn State," he said.

"We are Penn State too. We are trying to find our voice. The Lambda group is one means of doing that."

Number of minority admissions continues to increase

Edwin Escalante firmly believes that success breeds success.

As director of the Division of Minority Admissions and Community Affairs, he's convinced that increased numbers of Hispanic students at Penn State in the last two years will lead to an even more diverse University community in the near future.

"We have become very proactive in reaching out to the Hispanic community in their neighborhoods," he said. "While this approach is something the admissions staff seriously thought about, we began consciously planning it and putting it into action in the last two years."

"I believe this approach has been successful in that we've built a core of diverse students that is larger than in the past. This can only make it easier to recruit more minority students. As we continue to increase our base of minority students, the University will need to continue to make them comfortable and address their needs."

"And I think Penn State is pre-

pared to do that. Our new president has a strong commitment to fostering diversity. This puts our program on a firm foundation and commits us to the path we've embarked on."

"That path, with its 'reaching out and touching' approach, has produced dramatic results, according to recent reports."

At the July meeting of the University Board of Trustees, Mr. Escalante reported that the number of African Americans who have accepted offers of freshmen admission to Penn State for 1995-96 is up 64 percent, while the numbers of Hispanic Americans are up 27 percent and Asian Americans 11 percent.

The 64 percent increase in African-American acceptances translates to 640



Edwin Escalante

prospective freshmen, as opposed to 390 at the same time last year.

Among Hispanic Americans, the 27 percent increase corresponds to 321 prospective freshmen, compared with 252 last year. Among Asian Americans, the 11 percent increase corresponds to 595 prospective freshmen, compared with 534 last year.

"While we're extremely pleased with the dramatic increase in African-American acceptances," Mr. Escalante said, "we're also aware that the Hispanic community is the fastest growing minority segment in the country."

"According to statistics, minorities as a population are growing and will constitute one-third of the nation by the year 2000. In the last 15 years half of all

immigrants have been Hispanic. It is a dynamic population with a growing number nearing college age."

"In the past, much of our focus in minority admissions has been on African Americans. Now, however, recognizing that the Hispanic population is growing, we are trying to develop programs specifically for the Hispanic community."

Some of the efforts undertaken by the Division of Minority Admissions and Community Affairs include:

— Holding offer and prospect reception for Hispanic students in neighborhoods in the Hispanic community.

"We go to the Hispanic centers, to places where we are visible in the community," Mr. Escalante said. "When we hold a reception in a neighborhood, we order food from local restaurants and thus support local businesses."

— Appointing two Hispanic staff members in the division.

Philadelphia

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vacant lots and city eyesores into vegetable gardens.

The program, now in its 18th year, has six staff members who work with neighborhood organizations and the school district. This year, there were more than 500 gardens in the city that produced an estimated \$2 million worth of food.

"While the program is designed to beautify neighborhoods and establish a sense of pride," Mr. Hunter said, "it also gets people talking with one another. Neighbors who had nothing in common get together and discuss their gardens."

Many of the gardeners will enter their vegetables in the annual Harvest Glow scheduled for Sept. 15-17 at the Philadelphia Horticultural Center.

"This is the culmination of their hard work and labor during the year," Mr. Hunter said. "Our program is now the largest in the country in terms of the number of gardens and the amount of produce raised. And it has created a lot of community and Philadelphia pride."

The Expanded Food and Nutrition Education Program reaches more than 300 families with school-age children and teen parents in all parts of Philadelphia. It offers nutrition counseling and



Elmore Hunter

education programs that help parents make proper food choices for themselves and their children.

"The infant mortality rate in Philadelphia is very high," Mr. Hunter said.

"One of our major efforts is to work with teens who are pregnant to encourage them to eat nutritiously."

The Family Living program focuses on the well-being of children through its "Better Kid Care" program that last year trained more than 350 child care providers, and helps families manage their money through a variety of workshops and money management programs.

Penn State Entomology Services for Philadelphia health agencies and the pest control industry are offered through in-depth training courses for pest control operators at the Abington-Ogontz Campus.



Philadelphia children hatched chicks as part of the 4-H program.

Photos: Scott Johnson

"This is a major industry in Philadelphia," Mr. Hunter said. "Dr. Stanley Gree, our public health entomologist, works closely with small businesses providing courses leading to state certification. He also provides homeowners with assistance on identification of common pests and their control."

Mr. Hunter, who holds a B.A. degree in physical education from the University of Maryland and an M.S. in adult education from Cheyney University, joined Penn State in 1970 as an instructor in physical education at the former Ogontz Campus. In 1973 he joined the Cooperative Extension staff in Delaware County, working with the 4-H. In 1984, he moved to the Philadelphia office; where one of his major concerns continues to be 4-H.

"I've been involved in 4-H my entire career. Some people have the impression that 4-H is

designed for and involves only kids in rural areas. Quite the contrary. It is a leadership program for kids no matter where they live.

"Basically, we use farm animals as a vehicle to get to youth development. We're raising kids, not cows."

He said the 4-H program in Philadelphia focuses on agricultural science and staff members work with the school district in incorporating agricultural science into the school science curriculum.

"Hatching chicks is the oldest project in the books, but for kids it is a real exciting experience. And it can lead to other hands-on projects that create similar excitement. The kids begin to ask questions. We can now get them to become interested in education."

According to Mr. Hunter, the future of 4-H in Philadelphia is unlimited.

"There is greater potential for growth in the city because of the excitement generated by the program for city kids. We now have some 12,000 youngsters involved in 4-H. If we could get more staff, the potential for 4-H in Philadelphia is 50,000 to 75,000 kids."

William W. Asbury, vice president for student affairs, is a proponent of the 4-H program and, as honorary chairman of the 4-H Ambassadors, makes an annual presentation during their leadership training program at University Park.

"The largest 4-H program of all 67 counties is in Philadelphia," he said.

"After years of trying, we're finally making 4-H students feel a part of Penn State. President Thomas (former University President Joab Thomas) should be given credit for placing the Cooperative Extension Office and the Community Recruitment Center in the same location in Philadelphia. A large percentage of minority students in 4-H can be identified early by the recruitment center at potential University students. That move eventually will pay off in terms of recruitment."

"But our first goal is to demonstrate to Philadelphia that the University is interested in expanding its educational mission in the city. If we can demonstrate how we are helping to meet Philadelphia's needs through programs and service, then Penn State's name will be remembered."

Activities

continued from page 7

Penn State and Community African Dance Residency; and International Programing: Focus on Asian Cultures.)

➤ **Undergraduate Recruitment** (Programs included Academic Enrichment and Recruitment Program for Youth with Special Academic and Career Needs; Nuclear Science Workshop for High School Students; and MOEST Mathematics: Opportunities in Engineering, Science and Technology.)

➤ **Undergraduate Retention** (Programs included Comprehensive Retention Plan for Minority Students; FISE House: A Retention Program for Freshmen in Science and Engineering; Math Lab; "S" Plan: Support, Survival

and Success for African American and Latino Students New to Penn State; and the Minority Student Retention Program at the Penn State Fayette Campus.)

➤ **Women's Equity** (Programs included Women's Health Care Series; Collaborative Internship Program for Women; Feminist Scholars Lecture Series; Women's Equity Program at the Penn State Schuylkill Campus.)

■■■

A separate EOPC program award category for Summer 1994 totaled \$325,859 for these programs:

➤ **University Park:** Minority Teachers for the 21st Century; Bridges to the Future; Food and Agricultural Sciences Summer Workshop; Minority Health Careers Program; Minority Journalism Workshop; 1994 College of Communications Film and Video

Workshop; Minority Students Appreciation in Agriculture; and Minority Scholarship for Education Abroad Programs.

➤ Programs also were held at Penn State Erie, The Behrend College, and these Commonwealth Campuses: Allentown, Beaver, Berks, Delaware, Fayette, McKeesport, Mont Alto, New Kensington, Abington-Ogontz, Shenango and York.

➤ Wide-ranging activities and programs were conducted by the Commission for Women, Commission on Racial/Ethnic Diversity (CORED), Committee on Lesbian, Gay and Bisexual Equity, Advisory Council for Educational Equity Programs, Multicultural Resource Center, Office for Disability Services, Office of Veterans Programs and the Affirmative Action Office.

➤ The academic colleges also offered a wide variety of programs,

many of them relating to minority student recruitment and retention.

■■■

Managing Diversity at Penn State, a page on the World Wide Web, was developed by the Office of the Vice Provost for Educational Equity. To get to the site, computer users can type in the Uniform Resource Locator (URL) <http://www.psu.edu/staf/diversity/> Or, individuals can link to the site through Penn State's home page on the World Wide Web. That URL is <http://www.psu.edu>.

Once you're there, you can get to the Office of the Vice Provost for Educational Equity's welcome page by hitting the buttons marked "Student Services" or "Faculty & Staff Services" or clicking on the link for the Office of the Vice Provost for Educational Equity.

American Indian Leadership Program faces federal funding uncertainty

With all its successes over the last 25 years, Penn State's American Indian Leadership Program currently is facing its greatest challenge.

Penn State's program currently has the highest matriculation rate of any graduate program for minorities in the country, with 91 percent of our participants completing their degrees," says Linda Sue Warner, program director and assistant professor of educational policy studies.

In the past, the program has received funding from the U.S. Department of Education. The Department's current policy, however, favors training on the reservations. As a result, available funds are provided to Indian organizations first and there is no funding remaining for universities.

Despite funding uncertainties, plans for the program's 25th anniversary celebration are moving forward.

In observance of our 25th year in the College of Education, Dr. Warner said, "we are organizing, in cooperation with the Dean's Office, a number of projects to carry through the fall and spring semesters."

On Sept. 30, John Tippecanoe, a program graduate who is returning to University Park as an Alumni Fellow in the College of Education, will be honored at a banquet.

On Oct. 1, a conference will focus on current and past issues in American Indian education.

On Oct. 15, the College of Education will honor Gerald Gipp, first director of the program, with the college's Alumni Service Award for leadership and service.

On Oct. 27, the Native American Indian Leadership Program will be honored at the annual meeting of the University Council for Educational Administration in Salt Lake City, Utah. Dr. Warner and former program directors, Grayson Noley, now on the faculty at Arizona State University, and L.A. Napier, a faculty member at the University of Colorado at Denver, will describe the Penn State program.

"During Spring Semester," Dr. Warner said, "there are plans to publish a yearbook on graduates of the program. Also efforts will be made to develop a home page or electronic journal on the Internet to link our alumni and others interested in the program."

Established in 1970, the American Indian Leadership Program has a distinguished record of service to American Indians nationwide. To date, more than 150 participants have earned a master's degree and a doctorate. Ninety-five percent of the program's graduates have returned to



Linda Sue Warner, right, assistant professor of education in the College of Education, talks with a group of visiting scholars at the University Park Campus.

Photo: Greg Gineco

contribute to American Indian education in many roles: teachers, principals, administrators, community and junior college presidents, professors and education specialists.

The program was established to provide opportunities for principal certification and superintendent certification to Native Americans who would go back and be qualified for positions in administration in Indian schools," Dr. Warner said. "However, it has expanded into other areas in the College of Education, such as higher education, vocational education and curriculum and instruction."

"Not all of our graduates have gone back to their Indian schools. We now have graduates who hold high leadership positions in Indian education. One reason is that there is such a high need for input on Indian education on a much broader level involving policy changes rather than at the grass roots level."

A number of our graduates have had a significant impact on how Indian education is developed. In addition to Dr. Tippecanoe, other program graduates have held leadership positions in the Bureau of Indian Affairs and Dr. Gipp currently is working on rural initiatives at the National Science Foundation."

According to Dr. Warner, the makeup of students in the program also has changed.

There are more women now—the four students currently enrolled are women. Most program students are from west of the Mississippi.

While current federal policy supports training on the reservations, Dr. Warner believes one of the keys to success of the Penn State program is its location away from Indian country.

"It's my feeling that those who stay close to home and go to school often get involved in things other than their studies, such as supporting family and parents and taking care of other daily responsibilities. Since most of our students are physically far away from home, their only mission is to go to school, get their degree and go back home and make an impact on people there immediately."

"At the same time, because of our location, our students and program directors can easily testify at hearings in Washington and we can take our students to meet important government officials in their offices. There is a lot of opportunity to impact Indian education."

Dr. Warner, who is leaving the University this fall to join the faculty of the University of Missouri, taught at a tribal school in Alaska, where the superintendent was a graduate of the Penn State program. He encouraged her to apply to graduate school and she enrolled at Penn State. After receiving her doctorate from the University of Oklahoma, she joined the College of Education as program director in 1993.

"There is no question that the college supports the program," she said. "And Dean Reed (College of Education Dean Rodney J. Reed) is totally supportive. And the Graduate School has provided two fellowships for the program this year."

"But with the absence of federal funding, there is a pressing need to seek funding elsewhere. I hope there will be additional funding because I'm not certain the program can weather significant hard times on its own."

Admissions

continued from page 8

> Inviting Hispanic faculty and staff to speak at events and receptions.
> Inviting more Hispanic student prospects on visits to the University.
"Any visitation in our outreach program has grown to include a much more diverse population," Mr. Escalante added. "This includes Hispanics and Asian Americans."

"As part of our Achievers Program, we invite some 150 minority students who have been accepted to the University for a two-day visit to University Park in April. They interact with minority students and we are conscious to include among the hosts and hostesses a much more diverse group."

He likens the goal of building a diverse University to that of establishing a symphony orchestra. "We can only bring the music to life by setting free the rich sounds that are held captive within diverse instruments."

Mr. Escalante, who also oversees the Community Recruitment Centers in Philadelphia, Harrisburg and Pittsburgh, was appointed to his position in January 1994. Previously he had been director of undergraduate admissions at Penn State Harrisburg since 1988.

While there, he developed a strategic plan for admissions that resulted in an enrollment increase of more than 40 percent in four years and designed a recruitment action plan that resulted in record minority applications and enrollments.

He feels strongly that retention is a key aspect of any recruitment program. "Retention is probably the most important piece of the program. We have attracted students and, in a sense, given them the message that Penn State believes they can be success stories. Therefore, it is paramount that we verify that message by making the success story a reality."

"If we don't retain students, the minority community will see the University as making empty promises and our credibility would be brought into question."

A graduate of Fordham University with a B.A. degree in history, Mr. Escalante received an M.A. in history from East Stroudsburg University. Prior to joining the Penn State Harrisburg staff, he served for 11 years as associate director of admissions at East Stroudsburg.

In his work in minority admissions and retention, he has become convinced that we cannot ignore the fact that the United States will continue to become more diverse.

"If we want to meet the challenge of a world economy, we can only do it when the entire population has access to the American dream," he said. "We must realize that we have to take our brain power and develop it no matter what color that brain power is enclosed in."

"Minorities are interwoven into the fabric of this country. Each piece is vital. If you take away the fabric, the whole will unravel. We are all part and parcel of it. To separate the fabric is to unravel, in a sense, the cloth."

Learning Colloquy II prompts formation of study group, listserv

The Instructional Development Program is sponsoring the development of several Teaching and Learning Study Groups as an outgrowth of an annual colloquy that brought together more than 150 faculty and students, along with secondary school teachers from across the state.

Learning Colloquy II: Collaboration, Feedback and Student Involvement, the second in a series of annual colloquies aimed at finding ways to improve student learning, not only spawned the idea of the Teaching and Learning Study Groups, but also prompted the creation of a listserv to continually discuss learning techniques.

The first study group, set to begin in October, will address the question of using the Harvard Assessment Seminars as a model for improving teaching and learning at Penn State.

"The study groups are being developed as a means of furthering the discussions and explorations started at the Learning Colloquy," Diane M. Enerson, director of IDP, said. Anyone interested in participating or needing information should contact the IDP in 401 Grange Building, University Park, via telephone at (814) 863-2599, or by E-mail at dmc3@psuvm.psu.edu. Suggestions for future study group topics are also being accepted.



James B. Stewart, vice provost for educational equity, and Renata Engel, assistant professor of engineering graphics and engineering science and mathematics, participate in one of the small discussion groups at Learning Colloquy II, the second in a series of annual colloquies sponsored by John A. Brighton, executive vice president and provost, and the Commission for Undergraduate Education.

Another result of the Learning Colloquy is the establishment of a listserv for people interested in active and collaborative learning. It is hoped this listserv will provide an ongoing dialog for continuing discussions on improving learning.

Anyone interested should subscribe to the L-ACLRNG list (Active and Collaborative Learning). Questions regarding the listserv should be directed to Lee Ann Pannebacker at lah5@oas.psu.edu or by phone at (814) 863-1864.

Here's how to take full advantage of PH

With more than 60,000 people now using electronic mail at Penn State, finding the proper E-mail address amid those thousands of accounts could be tough.

To take full advantage of the accessibility and convenience E-mail provides, faculty and staff should know how to navigate the system and should make sure their own E-mail addresses are accurate. Early this month, the Center for Academic Computing is sending a letter to every faculty and staff member urging them to check if their E-mail address and FAX number are listed accurately in the electronic phone directory.

Known as PH, the electronic phone directory can help users find

the E-mail address, title, phone number, postal address and FAX number of someone in another college, unit or university. Like the printed phone directory, PH is invaluable but only if you know how to use it.

There are at least five ways to access PH from most computer systems:

- If you use Copher, select the item *Penn State Telephone and Other Directories*. You will then be asked for the last name of the person whose E-mail address you seek;

- If you use software like Netscape or Mosaic, connect to CAC's home page and select the item *Phone Directory*. You will see a screen that offers many choices and options for searching;

- If you use an E-mail program like Eudora or NuPop, you can use the PH option that comes with the software. Both the Windows version and the Macintosh version of Eudora work similarly. Just type the last name of the person you seek;

- If you are logged on to PSUVLM (the academic mainframe), just type PHLIST and the person's last name;

- Finally, CAC distributes several kinds of free PH software that work with DOS, Macintosh and Windows. To obtain this software or get help using it, call or visit the Help Desk in 12 Willard (814) 863-1035 or 215 Computer Building (814) 863-2494. Or send an E-mail message to helpdesk@psu.edu.

Harrisburg library campaign doing well

With generous assistance from faculty and staff, the campaign for the Penn State Harrisburg Library of the Future is in full swing.

The campaign kicked off in the spring with the faculty/staff phase netting \$130,000 in pledges.

The fund-raising effort has now shifted to a two-year public phase geared to a five-year pledge period. The library is scheduled for completion in either late 1998 or 1999.

Two area corporations and one foundation have already given their support to the campaign, which has a \$2 million goal.

Harsco Corp. pledged \$100,000 and Keystone Financial has committed \$50,000. The latest gift, \$50,000, comes from the Newhouse Foundation in the name of the *Harrisburg Patriot-News*.

A video and accompanying

booklet focusing on the Library of the Future is available from the Penn State Harrisburg Development Office. The video, which recently captured a national award for its producer, JPL Video, is available for personal and group use. For information or to obtain a copy of the video, call Sandy Friedman at (717) 948-6316.

Family Studies to expand its day care facility

The Department of Human Development and Family Studies plans to open a new day care facility for infants and toddlers.

The Child Development Laboratory, which has served 3- to 5-year-olds for more than 60 years, will add a classroom for infants and toddlers up to age 3. Applications for enrollment will be accepted beginning Jan. 1, and the classroom will open Sept. 1, 1996.

"The expansion will enable us to provide continuity of care and education across the first five years of life," Leann Birch, head of the HDFS department, said.

The announcement comes at a time when infant and toddler day care in the United States is expanding rapidly.

A study published earlier this year in the journal *Young Children* indicated that among the best child care programs are those at university facilities. Reasons cited include more highly educated staff, higher salaries and wages, reduced staff turnover and donated and in-kind services that universities provide.

At the same time, undergraduate students' interest in careers in child care and early education is increasing. The new infant/toddler classroom, like the current Child Development Laboratory, not only will provide day care but also will serve as a setting for research and for training of undergraduate students.

"The classroom will be staffed by teachers who can provide high-quality care and education to infants and toddlers, supervise students and collaborate with researchers," Dr. Birch said.

The new infant/toddler classroom will occupy space in Henderson Building South that currently houses the Discovery day care center, operated by the Child Development and Family Council of Centre County. The CDCF is not affiliated with Penn State; however, the University has provided space for Discovery, rent-free, for more than 15 years.

The Child Development Laboratory was officially established in 1929 as the Pennsylvania State College Nursery School. It has been in continuous existence since 1948, making it the longest operating preschool in State College and among the oldest laboratory preschools in the nation.

Currently serving 38 children and families, it is on the ground floor of Henderson Building South, and includes an outdoor playground donated in 1990 by Penn State graduates Edna Peterson Bennett and C. Eugene Bennett.

The ARTS

AT PENN STATE

Film showing

There will be a showing of the documentary film "To Render a Life" by Ross Spears, a production of the James Agee Film Project, at 4 p.m. today in 319 Walker Building on the University Park Campus. There is no charge.

'Slick Moves'

Dan Kamin returns to the Penn State Hazleton Campus at 8 p.m. Friday, Sept. 8, in a new comedy routine, "Slick Moves" — a fast and funny blend of weird skills, rude stunts and outrageous comedy.

Mr. Kamin, a Pennsylvania artist, has performed at the White House, Lincoln Center and with many major symphony orchestras.

The event is open to the public.

Recital by two

Tenor Richard Kennedy and soprano Deborah Montgomery will sing a recital at 8 p.m. Saturday, Sept. 9, in the Recital Hall of the College of Arts and Architecture School of Music Building 1 on the University Park Campus. The program is the second half of Hugo Wolf's "Italienisches Lieberbuch," a group of 22 songs, some of which are texts for female voices and some for male.

This recital is the conclusion of a two-part project for the duo, who sang the first half of the song cycle in recital last fall.

Mr. Kennedy is an associate professor of music and Ms. Montgomery is an associate professor of the music faculty at Ithaca College, Ithaca, N.Y. Accompanying them is pianist David Lutz, a professor of the Academy for Music in Vienna, Austria.

The recital is free to the public.

Annual clarinet recital

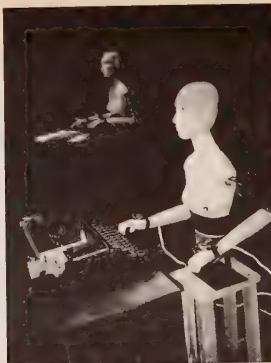
Clarinetist Evelyn Ellis will present a recital at 3 p.m. Sunday, Sept. 10, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. She will perform with pianist Jill Olson.

Ms. Ellis and Ms. Olson are entering their 13th year of musical collaborations. Ms. Ellis, a graduate of the School of Music, is the coordinator of minority programs for the College of Arts and Architecture and instructor in the School of Music. Ms. Olson is a soloist, piano teacher and chamber music performer in the Central Region and a graduate of the University of Wisconsin. This year they will be joined in concert by local cellist Cathy Lyon. Ms. Lyon is a graduate of the Eastman School of Music; she also performs locally.

The concert is free to the public.

Organ recital

Jane Miller, associate professor of music, will perform an organ recital at 8 p.m. Monday, Sept. 11, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.



"Under the Knife" is a kinetic sculpture by Theodora Skiptaires. Ms. Skiptaires will be at the Palmer Museum on the University Park Campus on Sept. 13.

Her program will feature organ settings based on German chorales, plainchant, American folk melodies and Afro-American spirituals. The recital is free to the public.

Six-part video series

"Shoulder to Shoulder," a six-part video series focusing on the true story of the women who played key roles in England's suffrage movement around the turn of the century, will be presented Sept. 11, 14, 18, 21, 25 and 28, from noon to 1 p.m., in Room 212 of Eisenhower Chapel on the University Park Campus.

A confining and distance education service, this video presentation first aired on PBS, was compiled from letters, diaries and personal histories of several women during the reign of King Edward.

Emmeline Pankhurst, elected as registrar of births and deaths, emerged as a force behind the Women's Social and Political Union. Her story will be featured on Sept. 11.

Her daughters Christabel and Sylvia were also instrumental in the suffrage movement. Christabel, a young, militant advocate of women's rights, will be featured Sept. 21.

Sylvia Pankhurst's story will be presented on Sept. 28.

On Sept. 14, Annie Kenney, a suffrage organizer, will be featured.

Lady Constance Lytton, a member of the aristocracy, was arrested after a demonstration against the imprisonment of her friends and tortured, but emerged triumphant. She is featured in the Sept. 18 video.

The Sept. 25 presentation recalls the events of June 4, 1913, when Emily Wilding Davidson threw herself under the hooves of the king's horse on Derby Day. Although it may have been a miscalculation, her death made her the first martyr for women's rights.

All presentations are free to the public.

Artist to visit Penn State

New York theatrical performance artist Theodora Skiptaires will present a public talk at 3 p.m. Wednesday, Sept. 13, in the Palmer-Lipson Auditorium of the Palmer Museum of Art on the University Park Campus. Her visit is sponsored by the College of Arts and Architecture School of Visual Arts

painting and drawing area, the Institute for the Arts and Humanistic Studies, the College of Arts and Architecture Department of Theatre Arts and the University Scholars Program.

During her visit, Ms. Skiptaires will meet with students in studios and conduct a workshop with students from theatre arts, the School of Visual Arts and the Scholars Program.

All activities are free to the public. Ms. Skiptaires will be at Penn State on Sept. 12 and 13. For more information contact Micaela Amato at (814) 865-0444.

Faculty recital

Cellist Kim Cook and pianist Carl Blake will present a recital at 8 p.m. Thursday, Sept. 14, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Ms. Cook, associate professor of music, will perform the Solo Sonata Opus 8 by Zoltan Kodaly, and will collaborate with Mr. Blake to perform the Sonata in F Major by Johannes Brahms. They will also perform short pieces by American composer Lukas Foss and "Songs of Spain" by Spanish composer Joaquin Nin.

Ms. Cook earned her master of music degree from Yale.

Pianist Carl Blake is currently associate director of the Institute for the Arts and Humanistic Studies and assistant professor of music. He has graduated from Cornell and Boston University, and has studied privately with Pierre Sancan of the Paris Conservatory of Music.

The recital is free to the public.

Student art exhibits

The following Penn State student exhibits are on display through September at businesses in downtown State College:

■ "Streetscape a la Edward Hopper" and "Kern Plaza a la Jua Gris" at Tower of Glass, 137 W. Beaver Ave.

■ "Sittescapes ala Louis Comfort Tiffany" at Woodring's Floral Gardens, 145 S. Allen St.

■ "A Star is Born a la Gustav Klimt" at Mode, 123 S. Allen St.

■ "Arts Courtyard a la Vassily Kandinsky" at Onomom Copy, 130 W. College Ave.

The exhibits feature work by students enrolled in the visual communication course taught by Richard Alden, assistant professor in the Department of Architecture.

Quilts in East Pattee

Sylvia Apple and Antoinette Hall, two local fiber artists, are presenting an exhibit of their quilts in Pattee Library's East Corridor Gallery through Sept. 29.

The display includes collaborative projects by the two artists as well as their individual work. The quilts reveal the different approaches of the artists: Ms. Hall pieces her quilts together using a variety of color combinations while Ms. Apple integrates drawing and appliqué and sees the quilting process as an "opportunity to give real dimension to the forms."

Watercolor exhibit

Watercolors by Anne Kenyon are on display in Pattee Library's Lending Services Gallery through Oct. 1.

Ms. Kenyon paints landscapes and still lifes and works primarily in watercolor. She won an award for a painting titled "Crazy Phalopsis" exhibited at the Susquehanna Regional Arts Council Show in Clearfield, Pa.

Ms. Kenyon has studied with a number of artists and works as a therapist in State College.



Evelyn Ellis

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, September 7

Geography, 4 p.m., 319 Walker Bldg. Documentary film "To Render a Life," by Ross Spears.

Friday, September 8

Palmer Lecture, 1:30 p.m., Palmer Lipcon Auditorium. Glenn Williamson on "Nineteenth-Century Photography."
Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Judy Cassidy on "The Making of 'To Render a Life'."

E&E, 4:00-4:40 p.m., Penn State Scanlon. Neal Lane on "From Peas to Beans to Greater Challenges."
School of Music, 8 p.m., Recital Hall. Judy Recognition Recital.

Saturday, September 9

Gallery Talk, 11 a.m., Christoffers Lobby, Palmer Museum. Efram Burk on "The Art of John McDonough."
School of Music, 8 p.m., Recital Hall. Richard Kennedy, tenor, and Deborah Montgomery, soprano.

Sunday, September 10

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "African Headrests."
Film, 2 p.m., Palmer Lipcon Auditorium. "Africa: Different But Equal."
School of Music, 3 p.m., Recital Hall. Evelyn Ellis, clarinet.

Monday, September 11

School of Music, 8 p.m., Recital Hall. June Miller, organ.

Wednesday, September 13

Visiting Artist/Scholar Lecture Series, 3 p.m., Palmer Lipcon Auditorium, "Under the Knife." Theodora Skiptares, performance artist.
Center for Women Studies, 4 p.m., 120/102 Boucke Bldg. CWS Tenth Year Anniversary Open House Reception.

Thursday, September 14

Bach's Lunch, 12:10 p.m., Eisenhower Chapel.
Palmer Lecture, 7:30 p.m., Palmer Lipcon Auditorium. William J. Dewey on "Headrests of Africa: Declarations of Status and Conduits to the Spirits."
School of Music, 8 p.m., Recital Hall. Kim Cook, cello, and Carl Blake, piano.

Friday, September 15

Gallery Talk, 3 p.m., Christoffers Lobby, Palmer Museum. Kay Picart on "Asian Art at the Palmer Museum."
Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Sanford Thatcher on "Scholarly Publishing and the Electronic Future."
School of Music Open House, 8 p.m., Music Bldg. I and II.

Saturday, September 16

Gallery Talk, 11 a.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "African Art at the Palmer Museum."
Sunday, September 17
Palmer Film, 2 p.m., Palmer Lipcon Auditorium. "Africa: Mastering a Continent."

SEMINARS

Thursday, September 7

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. Robert Wald on "The Laws of Black Hole Mechanics in a General Theory of Gravity."

Friday, September 8

Agronomy, 3:35 p.m., 107 A. John Stiller on "Hydrology and Nutrient Export in a Small Northeastern Pennsylvania Watershed."

Aerospace Engineering, 3:35 p.m., 215 Hammond Bldg. Lyle N. Long on "High Performance Computing: Progress and Opportunities at Penn State."

Monday, September 11

Center for Gravitational Physics and Geometry, 3:30 p.m., 113 Osmond Lab. Lee Smolin on "The Bekenstein Bound, Topological Quantum Field Theory and Planckian Quantum Cosmology."

Tuesday, September 12

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Art Humphrey on "Discovery of Technology: How Do I Protect My Discovery?"

Biology, 4:30 p.m., 8 Mueller Lab. Robert Baker on "Evidence for an Elevated Mutation Rate in Native Rodents at Chornobyl."

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Steven Riller on "The Effects of N-(4-Hydroxyphenyl) retinamide on Retinol-Binding Protein Metabolism."

Wednesday, September 13

Gerontology Center, noon, 101 H&H East. Alfred Owens on "Age-Related Difficulties in Night Driving: Can Visual Deficits Be an Advantage?"

Accounting Research, 3:30 p.m., 333 Beam Bldg. Gerry Salamon on "Footnote Disclosure and Future Market Returns: Evidence from the Operating Lease Issue."

Thursday, September 14

Computer and Science and Engineering, 4 p.m., 302 Pond Lab. Raghu Raghavan on "Three Dimensional Biomedicine: Mathematics, Physics, and Computers."
Center for Ethics and Religious Affairs, 7:30 p.m., 112 Kern Graduate Commons. Michael Dyon on "Values in Popular Culture."

Friday, September 15

Agronomy, 3:35 p.m., 107 ASI. Jon Chorover on "Colloid Chemistry of Iron Oxide."

CONFERENCES

Friday, September 15

Food Science Weekend, 150 attendees. Penn State Scanlon. Through Sept. 16. County Commissioner Workshop, 60 attendees. Nittany Lion Inn. Through Sept. 16.

EXHIBITS

Palmer Museum:

"Palms": non-objective paintings by West Coast painter John McDonough, through Oct. 1.
"Sleeping Beauties": African Headrests from the Jerome L. Joss Collection at UCLA, through Dec. 3.

"Photographs from the Palmer Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

Reflects an international perspective

TIPS

Information Penn State

Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather—234; Arts Line—345; University Calendar—456.

Magazine ranks University among best in the nation

The University ranks 56th nationally, according to a *Money Magazine* survey released last week. The survey is conducted each year for "Money Guide: Best College Buys Now," by editors of *Money Magazine*.

Penn State's value was also recognized in last year's *U.S. News & World Report* as eighth among the nation's most efficient national universities in terms of what is spent per student, and as being among the top 25 runners-up best value universities on the basis of its sticker price. Also last fall, Penn State was ranked as one of the 35 national flagship universities in "101 of the Best Values in American Colleges and Universities" — its third such ranking in three years.

The *Money* survey looks at 16 measures of educational quality to calculate its rankings. They are compiled from average SAT or ACT scores of the previous year's freshmen class (fall 1994); average high school class rank and grade-point averages; faculty resources; ratio of students to tenured faculty who taught in the fall of 1994; library

resources; and instructional and student services budgets. Freshmen retention and also four-to-six-year graduation rates are also considered, as are the percentages of those who go on to professional and graduate schools, graduates who earn doctorates and those who become business executives. The University's default ratio on student loans is also factored in.

At the top of the survey rankings are:
1. New College of the University of South Florida;

2. Rice University in Texas; and
3. Northeast Missouri State University.

Other Pennsylvania schools ranked in the top 100 are Chestnut Hill College (73); St. Vincent College (83); and the University of Pittsburgh (93).

Big 10 schools listed in the rankings are: University of Illinois at Urbana/Champaign (9); the University of Iowa (35); University of Wisconsin-Madison (38); Penn State (56); University of Minnesota-Twin Cities (62); and the University of Missouri-Columbia (70).

NEWS IN BRIEF

Aids Memorial Quilt

A loan of \$2,500 from the State College Area JAYCEES and a \$2,000 donation from Penn State's East Halls Gym will fund the NAMES Project AIDS Memorial Quilt to come to the University Park Campus Sept. 22-24 as originally planned. Sections of the quilt will be exhibited in Recreation Building's South Gym.

Two weeks ago, Centre CARES, co-sponsors of the exhibit, were not sure if the quilt would be brought to campus because of the need for an additional \$5,000 to cover shipping and other costs associated with transport. The JAYCEES are also donating \$1,000 to help unload the quilt when it arrives.

A total of \$10,000 raised by the 1993 quilt exhibit at Penn State was distributed among local AIDS service organizations. This year's beneficiaries include House of Care, Keystone Legal Services Inc. and The AIDS Project.

Lutheran/Episcopal service

The Lutheran Campus Ministry and the Episcopal Campus Ministry on campus offer a joint Lutheran/Episcopal service of Holy Communion each Tuesday and Thursday at 7:15 a.m. in Eisenhower Chapel. The service ends in time for participants to get to 8 a.m. classes or appointments. All faculty, staff and students are welcome.

West Patten offers extended hours

Three floors in West Patten Library will remain open an additional two hours for the fall semester.

Students can continue studying from midnight to 2 a.m., Sunday through Thursday evenings, on the ground, first and second floors of

West Patten. This will provide more than 500 seats for library use and general study and will also provide terminals for accessing LIAS (Library Information Access System) and other databases. Included in this section of the building are the Periodicals Room, the Reserve Reading Room and a 38-seat computer lab.

Support/Discussion Group for single parents

A Single Parent Support/Discussion Group will be held from noon to 1 p.m. Thursdays, beginning Sept. 14. Discussions will be aimed at developing a positive approach to enhancing the parent-child relationship and discovering the unique strengths we all have. This group is specifically designed for single parents of any age child.

The group will meet at the Paul Robeson Cultural Center on the University Park Campus. This program is free of charge. For more information and to register call Kristin and Gail at Child Care Program Services (814) 865-5886.

Paid experiment

The Stress and Anxiety Disorders Institute is looking for subjects who are nonanxious and nondepressed to participate in up to three sessions involving interviews, questionnaires and a laboratory session involving brain wave, heart rate and respiration recording. Payment is provided for participation of up to six hours. If interested, send a letter to Thomas Borkovec, Department of Psychology, University Park, Pa. 16802; include your name, address, phone number, age, sex, race and education level. If you prefer, call (814) 863-1725 and leave information with the staff.

LECTURES

Hershey Medical Center plans mental health lectures

The Department of Psychiatry at The Hershey Medical Center and the Hershey Public Library have announced the schedule for their fall lecture series "Maintaining Mental Health Throughout the Life Cycle."

Lectures will be presented from 7 to 8 p.m. in the library's Hershey Room. Dates and topics follow:

■ **Wednesday, Sept. 13:** "Psychological Development Throughout the Life Cycle: Young Adult, Middle Age and Older Adulthood" presented by Dr. Anthony Kales, chair of the Department of Psychiatry and Dr. Joyce Kales, professor of psychiatry.

■ **Wednesday, Sept. 20:** "An Update on Attention Deficit-Hyperactivity Disorder" presented by Dr. Valentines F. Krecko, assistant professor of psychiatry.

■ **Wednesday, Oct. 4:** "Parenting for the Nineties" presented by Dr. John A. Biever, assistant professor of psychiatry.

'Heinrich Heine and Romanticism' topic of international symposium

A three-day international and interdisciplinary symposium, "Heinrich Heine and Romanticism," will be presented Sept. 21-23 by the Department of German.

The event, planned for the Atherton Hotel in State College, will focus on the life and work of German poet and critic Heinrich Heine. The sessions planned for the symposium include:

Thursday, Sept. 21

■ **9:30 a.m.** "The Elusive Romantic: Die Romantische Schule as Evasion and Misdirection," presented by Jeffrey L. Sammons, Yale University;

■ **2 p.m.** "Die Figur des Narren bei Heine vor dem Hintergrund der deutschen Romantik," given by Jürgen Brummack, Universität Tübingen, Germany;

■ **4:30 p.m.** "Heine's Romantic Irony: German Seriousness and Jewish Wit," by Paul Lawrence Rose, Penn State;

■ **Wednesday, Oct. 11:** "Understanding Eating Disorders: Anorexia-Nervosa, Bulimia and Obesity" presented by Dr. T. Ling Tan, associate professor of psychiatry.

■ **Wednesday, Oct. 18:** "Suicide Prevention: Early Recognition of Depression" presented by Dr. Kathleen Dougherty, assistant professor of psychiatry.

■ **Wednesday, Nov. 1:** "An Update on Alzheimer's Disease" presented by Dr. Paul A. Ketti, assistant professor of psychiatry.

■ **Wednesday, Nov. 15:** "Family Issues in Caring for the Elderly" presented by Pat Lecho, social worker in the Department of Psychiatry.

Limited seating is available. Reservations are recommended. For additional information or to register to attend the lectures, please contact the Office of Public Relations at (717) 531-8606.

Friday, Sept. 22

■ **11:30 a.m.** "Vom Esoterischen zum Exoterischen. Die 'Neue Mythologie' der Frühromantiker und Heinrich Heines Prosa," given by Ulrich Stadler, Universität Zürich;

Saturday, Sept. 23

■ **9 a.m.** "Jede Zeit ist eine Sphinx, die sich in den Abgrund stürzt; sobald man ihr Rätsel gelöst hat," (Redressing the Romantic Text," by Azade Seyhan, Bryn Mawr College;

■ **3 p.m.** "Granada und Jerusalem oder 'Poesie-Orient' und Real-Orient: Referenzbeziehungen zwischen Heines, Arnims und Byrons Orientbild," by Gerhard Hoffmeister, University of California, Santa Barbara; and

■ **4:30 p.m.** "Weltschmerz, europäisch. Zur Ästhetik der Zerrissenheit bei Heine und Byron," presented by Markus Winkler, Penn State.

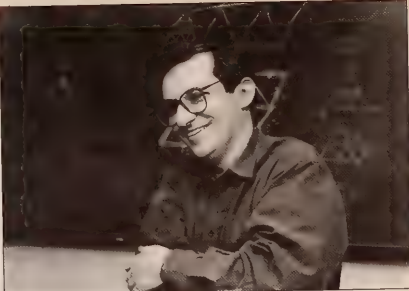
For more information, contact Dr. Winkler at (814) 865-5481.

Penn Staters

H. Jesse Amelle, vice president of the Board of Trustees and co-founder of one of the nation's largest minority-owned corporate law firms, gave the 1995 commencement address at the Dickinson School of Law, and also was awarded an honorary doctorate of law degree. Mr. Amelle is a 1962 graduate of Dickinson.

Renata S. Engel, assistant professor of engineering graphics and engineering science and mechanics, was an invited

speaker in a national workshop on "Modeling the Development of Residual Stresses During Thermoset Composites Curing," at the National Center for Supercomputing Applications at the University of Illinois, Urbana-Champaign. The workshop was jointly sponsored by the National Center for Supercomputing Applications, NIST Center for Theoretical and Computational Material Science, Institute for Mechanics and Materials at the University of California-San Diego,



Persi Diaconis, a mathematics professor at Harvard University, will present the four-lecture John M. Chermdera Lectures in Science series, sponsored by the Eberly College of Science Department of Statistics.

Photo: Jane Reed

Professor to speak on search for randomness

A mathematician with interests in magic, gambling and extrasensory perception will give the 1995 John M. Chermdera Lectures in Science from Sept. 11-14, on the University Park Campus.

Persi Diaconis, professor of mathematics at Harvard University, will present a four-lecture series titled "The Search for Randomness." The series is sponsored by the Eberly College of Science Department of Statistics and is open to the public.

The lectures include:

■ "Search for Randomness," at 8 p.m. Monday, Sept. 11, in 102 Classroom Building.

■ "Patterns and Eigenvalues," at 4 p.m. Tuesday, Sept. 12, in 104 Classroom Building;

■ "From Contingency Tables to Toric Ideals and Back," at 4 p.m. Wednesday, Sept. 13, in 117 Classroom Building; and

■ "What Do We Know About the Metropolis Algorithm," at 4 p.m. Thursday, Sept. 14, in 117 Classroom Building.

A scholar in mathematics, probability and statistics, Dr. Diaconis is known for his current work in the use of geometric ideas in the study of random phenomena, as well as

for his work in philosophy, applied statistics, probability and group theory.

Dr. Diaconis earned a bachelor's degree in mathematics at the City College of New York in 1971, a master's degree in mathematical statistics in 1972 and a doctoral degree in mathematical statistics in 1974, both at Harvard University. He was an assistant professor of statistics at Stanford University from 1974 to 1979. He has been professor of mathematics at Harvard University since 1987.

He has received a number of honors, including the Rollo Davidson Prize given by Cambridge University in 1981 and a MacArthur Fellowship for 1982 to 1987. He was served as a consultant to *Scientific American* magazine on various aspects of paranormal phenomena, the NASA Jet Propulsion Laboratories, Bell Telephone Laboratories and the Stanford Linear Accelerator.

The John M. Chermdera Lectures in Science are named in honor of John M. Chermdera, a member of the Penn State Class of 1935. The lectures are supported by a grant from Merk & Co. Inc.

and the College of Engineering at the University of Illinois, Urbana-Champaign.

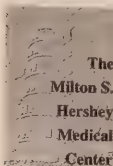
James Dunn, professor of agricultural economics, has been appointed a Congressional Fellow for U.S. Sen. Rick Santorum (R-Pa.). Dr. Dunn will analyze issues pertinent to the 1995 Farm Bill.

H. Louis Moore, professor of agricultural economics, served as the U.S. rep-

resentative to a food assessment mission to the three Caucasus Republics (Armenia, Azerbaijan and Georgia) as part of a nine-member team assessing the nations' food and feed situation.

Susan C. Youtz, assistant director of the School of Nursing, gave an invited presentation on "A Collaborative Model for the Development of Rural Nursing Centers" to the nursing faculty at the University College of Health Sciences in Jönköping, Sweden.

Pancreatic cancer may be able to fuel own growth



The
Milton S.
Hershey
Medical
Center

Pancreatic cancer may actually be fueling its growth by creating its own supply of a hormone, a researcher has found.

Gastroenterologist Jill P. Smith, M.D., associate professor of medicine at The Milton S. Hershey Medical Center, has found for the first time that such cancer cells may manufacture

their own supply of gastrin, a stomach hormone. Gastrin and another hormone, cholecystokinin (CCK), both stimulate the growth of pancreatic cancer.

Normal pancreatic cells don't make gastrin; it is unique to cancer, Dr. Smith said.

The finding offers hope for new treatments for the disease, perhaps by somehow blocking gastrin's effects or by halting the cancer's ability to make gastrin.

Dr. Smith presented her research at an American Gastroenterological Association meeting.

A similar system may be working in stomach cancer. Scientists have known for several years that gastrin can also stimulate cancer growth. Recently, Dr. Smith's team found genetic messages from gastrin in human stomach cancer cells, unlike normal stomach cells, suggesting that the cancer cells can manufacture gastrin to support its growth.

In related work, Dr. Smith and her colleagues identified a CCK receptor on pancreatic cancer cells that may be different from the usual cell receptors. A and B CCK binds to such receptors on pancreatic cancer cells, allowing the hormone to exert its effects. If this receptor is present in only cancer cells, it may provide a potential marker for early diagnosis of the disease.

Pancreatic cancer, the fourth-leading cause of cancer death in this country, takes some 30,000 lives a year. The incidence of pancreatic cancer has tripled in the last 40 years with no improvement in survival, Dr. Smith said. The pancreas is situated behind the stomach, meaning that the cancer often grows unnoticed until it's too well entrenched to treat. Chemotherapy has proven virtually useless.

One of the problems is that by the time the patients come to us, they usually have cancer that cannot be treated with surgery," Smith said. Many of its early symptoms, such as back pain, are easily mistaken for other health problems.



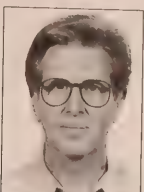
Jill P. Smith

Estrogen may be aggression trigger

Estrogen may influence aggressive behavior in adolescent girls much like testosterone is thought to act in boys, according to a study by University researchers. In fact, the scientists suggest that testosterone may actually exert its effects by being biochemically converted in the body to estrogen.



Jordan W. Finkelstein



Howard Kulin

Pediatrician Jordan W. Finkelstein, M.D., principal investigator Howard Kulin, M.D., and their co-workers at The Milton S. Hershey Medical Center and at University Park gave either placebo or varying doses of testosterone to adolescent boys and estrogen to girls who for medical reasons had not gone through puberty.

Using questionnaires completed by the adolescents, the researchers found that physiological doses of sex hormones seem to directly affect aggressive behavior in both sexes. The girls showed earlier and larger increases in aggression than did boys until the highest dose, suggesting that estrogen may play an important role in eliciting aggressive behavior during puberty.

"What we found is really quite interesting," Dr. Finkelstein, professor of biobehavioral health and human development at University Park and professor of pediatrics at Hershey, said. "There is data to show that testosterone might work by conversion to estrogen in other physiologic systems. It may well be that estrogen has aggressive effects in both sexes."

Dr. Kulin notes that "social influences certainly play a powerful role in aggressive behavior in later stages of adolescent development. More violent acts may be influenced solely by social factors."

Dr. Finkelstein reported his research group's results at the annual meeting of the American Pediatric Society, Society for Pediatric Research and Ambulatory Pediatric Association.

The researchers examined the effects of sex hormones on 34 boys and 14 girls. The study was a double-blind, crossover design, meaning neither the investigators nor the children knew when they received hormone or placebo. The testosterone was given by injection once every two weeks; estrogen was given daily in pill form.

Both sexes first received either a low dose of hormone or a placebo for three months; then they switched treatments. Next, the subjects received either a mid-dose or a placebo each for another three months. Finally, the adolescents were given either a high dose hormone or a placebo. "The idea is to mimic the different stages of puberty," with the highest dose akin to late pubertal levels of hormone, Dr. Finkelstein said.

At each three-month interval, the scientists measured self-reported levels of aggression with

a questionnaire, the Olweus Multifaceted Aggression Inventory.

"We wanted to know whether giving testosterone to boys and estrogen to girls would result in a hormone effect and whether different behavior responses might occur in boys and girls," Dr. Finkelstein said. "It turns out that in regard to aggressive behavior,

they're not very different.

"Estrogen may work directly to increase aggressive behavior in both sexes, and males may get their estrogen from converting their own testosterone (or administered testosterone) to estrogen. But it may not work at the lowest dose in boys because conversion may be poor at the lowest dose and the results of estrogen may be less than required."

"It's clear that there's some biological component to the development of aggressive behavior that works during the time of puberty, though the implication of gender differences is unclear just now," he said.

The researchers are also measuring other types of behavior besides aggression, including mood, self-image and behavior problems, as well as spatial learning.

"So far these behaviors don't seem to be affected but the study is ongoing," Dr. Finkelstein said.

"We have to be careful," he said. "The questionnaires don't ask about how many times the children did something. They ask how they would respond in a hypothetical situation. The study doesn't measure direct behavior through observation."

"In the transition from prepuberty to puberty, by giving hormone replacement therapy in increasing doses, we can say that there is some biological contribution to aggressive behavior," Dr. Finkelstein said. "But you have to recognize that there are major social contributions as well."

Many of the children have Turner's syndrome, a genetic abnormality. Boys had a variety of conditions, including constitutional delay in growth and development — so-called "late bloomers" — and hypopituitarism.

The researchers are planning to look at the longer-term effects of administered hormones by getting one- to two-year follow-ups on those patients being treated for permanent sex hormone deficiency. The study has run for four years; data will be collected for one more.

Also participating in the study were: E.J. Susman, V. Chinchilli, J. Schwab, L. Demers, L. Liben, J. Martel and G. Lookingbill, from the departments of pediatrics and biostatistics in the College of Medicine, and the Program in Biobehavioral Health in the College of Health and Human Development.



Back-to-school sale

The Microcomputer Order Center sale continues. Most prices from the summer sales flier on Apple, Compaq, IBM, Radius, Hewlett-Packard and Lexmark equipment are good through September.

Apple availability

Apple could not meet the overwhelming demand for their PowerMac 7100/80, so it is no longer available. The Performa 5200, another PowerPC unit on their back-to-school promotion, has not met demand. Apple will be back on track with the 5200, however, late October/early November.

Credit cards

You can now use your MasterCard and Visa for purchases at the MOC.

New software available

Many new software products have been added to our list: Quicken, QuickBooks, Quarterdeck MOSAIC, WebAuthor for Word, SoftWindows 2.0, Speed Doubler for Mac, Pro-Cite, Bibliolink, EndNote 2, EndLink 2, and ClarisWorks 4.0 for Mac.

MOC Open House

The MOC will be participating in the Parents & Families Weekend activities by holding an open house with refreshments and prizes. The MOC will be open 8:30 a.m.-7 p.m. Friday, Sept. 22, and 10 a.m.-4 p.m. Saturday, Sept. 23.

MICROCOMPUTER ORDER CENTER

12 Willard Building, University Park

PHONE: (814) 865-2100 or (800) 251-9281 in Pa. FAX: (814) 863-7514

E-Mail: moc@psu.com.psu.edu

WWW: <http://moc.cac.psu.edu/>

CARPOOLER

Looking to carpool from Bellefonte to University Park. Work hours 8 a.m. to 5 p.m. Monday through Friday. Call Mike at (h) 353-8505 or (w) 865-4040.

Telescope facility nearly ready

The dome of one of the world's largest telescopes — and the product of a Penn State partnership with several universities — was recently lifted into place, pushing the project one step closer to its 1997 completion.

The 85-foot-diameter dome covering the William P. Hobby-Robert E. Eberly Telescope was put in place by a crane at the McDonald Observatory in the Davis Mountains of west Texas. The telescope when complete will be the largest and most powerful telescope in the world designed for spectroscopic astronomy — the measurement of individual wavelengths of light from objects in space.

The installation of the dome marks the last large structural component of the telescope facility to be put in place. The telescope structure (visible in the photograph) and the 11-meter mirror truss were installed in late spring and early summer. The 91 mirror segments that will make up the primary mirror will be installed during the coming year.

The idea for the telescope, conceived by Lawrence W. Ramsey, and Daniel W. Weedman, professors of astronomy and astrophysics, is being carried out through an arrangement among Penn State, the University of Texas at Austin, Stanford University and two German universities. "We eagerly anticipate first light — when the potential of the telescope to carry out scientific research is realized — in mid-1996," Dr Ramsey said. The project will put Penn State in the forefront of astronomy.

Penn State scientists intend to use the Hobby-Eberly Telescope to study the most distant quasars, to understand the early history of



Workers place the dome on the Hobby-Eberly Telescope

the universe and to probe for the existence of dark matter in and around galaxies, as well as to search for planets around other stars and study the properties of newly born stars.

When completed in 1997, the Hobby-Eberly facility will be the largest telescope in the world that the public can view from a visi-

tors' gallery. The instrument is named for William P. Hobby, former lieutenant governor of Texas and holder of endowed faculty chairs at the University of Texas at Austin and Rice University, and Robert E. Eberly, a Penn State alumnus and philanthropist who has donated \$1.5 million to the telescope project.

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PENNSTATE INTERCOM

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Inn-credible makeover completed

Renovations make Nittany Lion Inn an elegant choice for out-of-town guests

You've got to see it to believe it. If you haven't visited the Nittany Lion Inn on the University Park Campus for a while, you're in for a real treat, because Penn State's living room has undergone a major facelift.

The first phase of the Inn's massive renovation project, an expansion that added more than 100 rooms to the Inn, was completed in 1992. In the second phase, renovations to the existing rooms eliminated the stark contrast between old and new.

"It was like night and day. When you walked through the building from the new lobby to the older section, you felt like you were in two different buildings," James W. Purdum, general manager of the Nittany Lion Inn, said. "We replaced all the public carpeting and changed all the paint schemes to match what we did in the new section. Now when you walk through you don't feel like you're in different buildings, which is really important."

Gone are the small, dark, somewhat crowded guest rooms. In their place are large, open, airy, elegant rooms, ranging in size from typical hotel rooms to large suites with separate sitting room.

"Everything in the rooms was just taken down to the frames, from inside the corridor walls to the exterior of the building," Mr. Purdum said. "The rooms were dark, and many of them had dark carpeting. We've installed cultured marble tub surrounds and cultured marble vanities. We've done very high quality vinyl wall coverings so the bathrooms are cleanable and stay light and bright."



In its August 1995 issue, the magazine *Lodging Hospitality* rates the stately Nittany Lion Inn 42nd in the nation in its rankings of top-performing suburban hotels.

Photo: Greg Grieco

The renovations not only made the Inn a nicer place for guests to stay, but also made the Inn a place people want to stay.

"Before the renovations we were selling two hotels. We had the 1931 wing with very small rooms, and then we had this beautiful new wing, the 1992 wing, and the renovated rooms also in the 1957 wing," Fran E. Levin, director of sales for the Nittany Lion Inn, said. "People were just not very happy if they got put in the 1931 wing. Large conventions would demand up front to have the new rooms. And you'd sit there and say, 'We only have so many.' Now, the

rooms are so beautiful, and we don't have any in the hotel that are less than four years old. It makes our job just so much easier."

Making tiny rooms larger was a goal in renovating the section built in 1931. Designers took the space of three rooms and used it to make two. In some cases, what had been three rooms became one large suite. Before the renovations began last November, there were 68 rooms in the 1931 section. Now, there are 44 rooms in the same space. With the addition and the renovations, the Inn now has

NSF director urges scientists to spread R&D message

In the fight to save precious research dollars, Universities and the scientific community cannot separate themselves from society, but must work to show the value of their research, according to Neal F. Lane, director of the National Science Foundation.

Dr. Lane, speaking Sept. 8 before nearly 400 people at The Penn State Scanticon at University Park, also said the Congressional budget cuts which will significantly decrease funding for non-defense research and development will be a blow to the nation and will not be easily turned around.

"The budget cuts and abolition of programs over the next several months will undoubtedly damage the national R&D enterprise and our nation's welfare in the long-term," he said.

In an earlier address to the Ameri-

See "Funding" on page 3

State of University Address tomorrow

Just 15 days after officially taking over the helm of Penn State, President Graham B. Spanier will give his inaugural State of the University Address.

The University community is invited to attend the event at 3 p.m. Friday, Sept. 15, in Eisenhower Auditorium on the University Park Campus to hear Dr. Spanier's thoughts on the University, its future, its people and his approach to leadership. Following the address is a reception in the HUB Ballroom.

The address is also being aired live on WPSU FM and will be reshown on I-TV at 6 p.m. Saturday, Sept. 16 and again on WPSX-TV Channel 3 at 6 p.m. Sunday, Sept. 17.

See "Inn" on page 7

Inside

Online

A listserv, established by Penn State, is helping financial aid officers across the nation and in other countries with advice and information. See page 5 for details.



Research

A University professor has developed a probe that uses a different technique to inspect generator tubing in nuclear and fossil fuel power plants. See page 15.



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Faculty/Staff Alerts

Time change for game

The time for the start of the Penn State Nittany Lion football game against Temple University on Saturday, Sept. 16, has been changed from 1 p.m. to noon.

Animal care

The Institutional Animal Care and Use Committee (IACUC) is responsible for ensuring that all animals used in research, education or testing activities at Penn State are treated humanely and in accordance with all federal, state and local laws and regulations. These activities are coordinated through the Office for Regulatory Compliance (ORC), in 212 Kern Building. Concerns or questions related to projects involving animals can be directed to Candice Yekel at the compliance office by phone: (814) 865-1775 or FAX: (814) 865-8699; Email: CAY@PSU.EDU.

Concerns or questions will be handled confidentially and federal law prohibits discrimination against people who bring forth legitimate concerns for investigation.

New group

CAPS (Computer Artists of Penn State) is a new group forming at the University to assist those working in computer graphics and computer Web design.

The group offers a way for architects, engineers, journalists, artists and anyone interested to meet people working with computer graphics, discuss ideas and problem solving, and keep up to date with what is happening in the world of computing.

If you're interested in the computer graphics field and would like the opportunity to meet others with similar interests, visit the group's home page at <http://cac.psu.edu/~jmm139/CAPS.html>.

Penn Staters

Leonid Berlyand, assistant professor of mathematics, presented an overview of his research at an international conference in Nice, France, titled "Eur Homogenization: Homogenization and Applications to Materials Science." Dr. Berlyand was one of the four principal speakers representing the United States.

Anthony Cutler, research professor of art history in the College of Arts and Architecture's Department of Art History, presented the keynote address at the Third International Conference on Macedonian Studies in Melbourne, Australia. His paper was titled "Gift Exchanges Between Byzantium and Islam in the

A newsletter is available by contacting the CAPS Librarian at jmm139@psu.edu.

For more information contact James Molony at jmm139@psu.edu.

HRDC courses

The following courses are being offered by the Human Resources Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog. Description of courses can also be found in the catalog.

■ **Excel 5.0 Level 1 (IBM 007)** Meets Mon. and Wed., Sept. 18 and 20, 1-5 p.m. in 116 Wagner Bldg.; cost \$110.

■ **Career Counseling For Women (CAR 094)** Meets Wed., Sept. 20 and 27, from 5:30-8:30 p.m. in 319 Boucke; cost \$65.

■ **Introduction To American Sign Language (COM 023)** Meets Friday, Sept. 22, from 8:30-11:30 a.m., in 319 Rider Building; cost \$35.

■ **Data Basics And Tools Overview (CQI 031)** Meets Monday, Sept. 25, from 1:30-4 p.m., in 319 Rider Bldg.; cost - none.

■ **Later Life Planning: What Everyone Needs To Know (FAM 022)** Meets Monday, Sept. 25, from 12-1 p.m., in 319 Rider Bldg.; cost - none, bring your own lunch.

■ **Developing Winning Research Proposals, I (PRO 014)** Meets Tuesday, Sept. 26, from 9 a.m.-4 p.m., in 319 Rider; cost \$55.

■ **Cart Smart Shopping Tour (WEL 040)** Employees enrolled in HealthAmerica's Health Maintenance

Organization may be reimbursed for personal costs for this course. Meets Wednesday, Sept. 27, from 4:30-5:45 p.m., at Bi-Lo Food Market, 1659 North Atherton St. Meet at snack bar area; cost \$5.

■ **Successful Cross-Cultural Communication, I (COM024)** Meets Wed., Sept. 27, from 8:30 a.m.-12 p.m., in 319 Rider; cost \$35.

■ **Conversational German For Practical Situations (COM 020)** Meets Monday, Oct. 2-Nov. 27, from 12-1 p.m., in 410 Rider Building for 8 sessions; cost \$55.

■ **Persuasive Business Writing: Getting What You Want By Giving Readers What They Need (COM 051)** Meets for 4 sessions Monday, Oct. 2, 9, 16 and 30, from 2-4 p.m., in 319 Rider Bldg.; cost \$65.

■ **Conversational Spanish For Practical Situations (COM 021)** Meets for eight sessions Thursday, Oct. 5-Nov. 30, from 12-1 p.m., in 410 Rider Bldg.; cost \$55.

■ **Understanding and Valuing Diversity (DIV 008)** Meets Friday, Oct. 6, from 9 a.m.-4 p.m., in 319 Rider Bldg.; cost - none.

■ **Career Planning (CAR 001)** Meets for six sessions Monday, Wednesday and Friday, Nov. 6, 8, 10, 13, 15 and 17, from 12-1 p.m., in 39 McAllister Building; cost \$20. NOTE: THIS COURSE IS SCHEDULED FROM 12-1, NOT 12-4 PM. AS LISTED IN THE HRDC COURSE CATALOG.

Macedonian Era. Dr. Cutler, who was a visiting Fellow in the Department of Art and Archaeology at Princeton during the spring 1995 semester, holds the Francis I Medal from the College de France for his work on Byzantine studies.

N. K. Bose, HRB-Systems Professor of electrical engineering, delivered an invited lecture on the topic of "Single-loop Robust Multidimensional Feedback Structures" at the International Federation of Automatic Control (IFAC) Conference on System Structure and Control at Nantes, France.

Jeff Edmunds, library assistant,

attended the third International Nabokov Conference in Nice, France. The by-invitation-only conference, titled "Nabokov: At the Crossroads of Modernism and Postmodernism," included Nabokov specialists from nine countries.

Robert Lima, professor of Spanish and comparative literature and Fellow of the Institute for the Arts and Humanistic Studies, chaired a session and presented a paper titled "The God of Celestina: Plutonic Magic and Witchcraft in *Tragicomedia de Calisto y Melibea*" at the Fifteenth Century Studies International Congress held at Castle Kaprun, in Salzburg, Austria.



New members

Several new members attended the first meeting of the University Council on

Continuous Quality Improvement for the academic year: Peter Jurs, professor of chemistry and chair of the University Faculty Senate; Betty Roberts, assistant vice president for Business Services; Jack Royer, senior associate dean for the Commonwealth Educational System, and Graham Spanier, president. Also present were administrative fellows, Robin Anderson, Judy Ozment, and Claudia Limbert. The council is chaired by Susan Welch, dean of the College of the Liberal Arts.

An overview of the rationale, objectives, past activities and accomplishments of the council was presented by Gregory Geoffroy, dean of the Eberly College of Science. President Spanier commented that he was "impressed by what CQI has accomplished at Penn State" and will continue to look for opportunities to support quality initiatives.

Quality Experts Needed

The National Institute of Standards and Technology is seeking quality experts from educational institutions to serve on the 1996 board of examiners for the Malcolm Baldrige National Quality Award. Experts will participate in an ongoing pilot program to determine whether the Baldrige quality award should be expanded to include categories for the education sector. Those selected for the board must take part in a three-day preparation course based on the Baldrige award examination items. In addition, examiners are expected to spend 10 days or more reviewing applications, preparing feedback reports, and in some cases, participating in site visits.

Applications for the board of examiners are available from the Malcolm Baldrige National Quality Award Office, phone: (301) 975-2036, fax: (301) 948-3716, E-mail: orp@ninst.gov. Applications are due Nov. 1.

Assistance for Focus Groups

CQI teams and others involved in quality improvement initiatives often assess their customers' needs by conducting focus groups. In order to assist team members in this activity, the CQI Center has purchased copies of an 80-page booklet by David L. Morgan, *Focus Groups: Its Qualitative Research*. The publication, which describes planning, conducting and analyzing focus groups, may be borrowed from the center's library. For more information, please call the CQI Center, at (814) 863-8721, or stop by 303 Old Main.

A New Team Member

Barbara Sherlock, formerly an executive officer in Naval ROTC, will work with the CQI Center and the Human Resources Development Center to provide consulting assistance to quality improvement teams. She can be reached at (814) 865-1413.



Green space

It may not look like it yet, but by spring this area will be lush with greenery. Workers are just beginning to construct the layout of Foundry Park, the 1995 class gift. Soon, landscape students in the class of Dan Stearns, associate professor of landscape contracting, will begin planting flowering trees and shrubs in the area as part of their course work.

Photo: Greg Grieco

Funding

continued from page 1

can Association for the Advancement of Science. Dr. Lane said, "once inflicted, the damage cannot easily be reversed and the original capability is almost never achieved again."

"To prevent this damage will require, I believe, an unprecedented degree of partnership between business and higher education in which the two agree on the message and strategy and work together to inform the public."

In his Scanticon talk, Dr. Lane charged the science establishment with two tasks to confront the new reality of a changing and declining national investment in research and development.

"Our first task will be to explain to

"We have entered a stage of pervasive reductions and R&D will not be exempted."

— Neal Lane

National Science Foundation

BOOK SHELF

Amy K. Glasmeier, associate professor of geography and regional planning, is co-author of *From Combines to Computers: Rural Services and Development in the Age of Information Technology* with Marie Howland, director and associate professor of the Urban Studies and Planning Program at the University of Maryland.

The book, published by the State University of New York Press, is part of the SUNY series "The New Inequalities" edited by A. Gary Dworin.

Through an analysis of national data and detailed case studies, *From Combines to Computers* examines how the transition to a service economy is playing out for rural America. The book answers two important questions: Will services fill the gap left by lost farming, manufacturing and mining jobs? And will services stabilize, even revitalize, rural areas? The authors document the intraregional spatial patterns and trends of services in the national economy, compare services in urban and rural communities and identify the potential and limitations of rural development strategies based on services.

Steven Heine, associate professor of religious studies, has edited two books: *Japan in Traditional and Postmodern Perspectives* (co-edited with Charles Wei-hsun Fu) and *Buddhism and Interfaith Dialogue*.

Japan in Traditional and Postmodern Perspectives, published by the State University of New York Press, is a collection of essays by leading scholars in Japanese studies. Each article offers an in-depth analysis of the origins and development of an important aspect of Japanese culture, including religion, philosophy, literature and the arts and social behavior. The central underlying theme is to explore the question of the uniqueness and creativity of Japanese

culture as seen from traditionalist and postmodernist standpoints. The volume features a contribution from Nobel Literature Prize winner Kenzaburo Oe.

Buddhism and Interfaith Dialogue, published by the University of Hawaii Press, is a collection of articles by the Japanese Buddhist scholar and philosopher Masao Abe, who has taught at Princeton, Chicago and Columbia universities. This volume, part one of a two-volume sequel to Abe's award-winning *Zen and Western Thought* (Hawaii 1985), focuses on Abe's project over the last three decades of undertaking a theological dialogue with some of the leading representatives of Western religious traditions.

Harold H. Schobert, professor and program chair of fuel science in the Department of Materials Science and Engineering, is author of *Lignites of North America*, published in 1995 in the Coal Science and Technology Series of Elsevier.

This monumental, 714-page work is the most comprehensive study of lignites compiled to date. Successive chapters deal with the location of lignite deposits, their deposition and formation, the organic structure, and organic reaction chemistry, the nature and behavior of inorganic constituents, and lignite's physical properties and moisture content. The mining, transportation, storage and beneficiation of these coals are discussed, followed by investigation of lignite combustion, liquefaction, gasification and chemical products.

Understanding that this work will be used primarily as a reference, Dr. Schobert has provided useful annotated references to the original work — no less than 1,830 citations are made to the literature and an extensive index further assists readers.

Dr. Schobert is also author of *The Chemistry of Hydrocarbon Fuels* (1990) and *Coal: The Energy Source of the Past and Future* (1987).

Since he joined the faculty in 1986, Dr. Schobert has been instrumental in re-establishing the eminence of coal liquefaction research at the University and inaugurating projects on jet fuels.

the public and to their representatives in the Congress the value and effectiveness of science and technology in our society," said Lane. "The second is to be responsible participants in the total R&D system."

He noted that unique and valuable components of the U.S. research and development enterprise were targeted for elimination by newly elected policy makers with no experience in how the process as a whole functions.

Dr. Lane warned that scientists employed directly by the government or doing taxpayer-supported research have a "responsibility to explain to the American public the contributions that science and technology make in meeting the goals of the nation and its citizenry."

"It is only then that we can expect society to truly understand and value those contributions. It is only then that the public's representatives in Congress will be instructed to preserve this national capability for finding solutions to many of society's problems."

However, no matter how well the science and research enterprise address the current funding problems, things will change.

"We have entered a stage of pervasive reductions and R&D will not be exempted," Dr. Lane said. "As a community can either participate in and help guide this process with informed judgment and reasoned advice, or we can look the other way and let others less knowledgeable of the system make those decisions."

—Andrea Elyse Messer

CEO of State College firm earns "Renaissance" title

Donald W. Hamer, the founder, chairman and chief executive officer of State College-based State of the Art Inc. will be honored at the 19th annual Renaissance Fund dinner, to be held Nov. 16 at the Nittany Lion Inn on the University Park Campus.

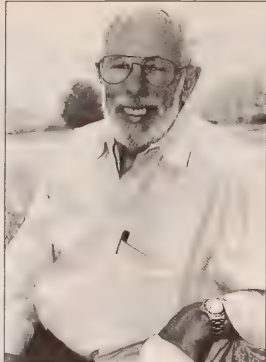
The dinner raises funds for Penn State's Renaissance Scholarships, which are awarded to academically talented students who have financial need. Since its inception in 1969, the fund has raised \$2.8 million in private contributions and has helped make higher education possible for 1,194 students. During the 1994-1995 school year, 261 scholarships were awarded.

"Each year we select a community leader whose actions typify the spirit of the Renaissance Fund and establish scholarships in his or her name," **Marjorie Dunaway**, president of the fund's board of directors, said. "Don Hamer generously contributes his time and resources to a wide range of community activities and organizations, including Pattee Library, ClearWater Conservancy and the Palmer Museum of Art."

A philanthropist who believes in sharing his time and his financial resources, Mr. Hamer said, "You don't just give money away. You get involved. Even though it is time consuming, working with philanthropies is a lot of fun."

Mr. Hamer serves on the advisory boards for two organizations that appeal to his love of the arts: The Palmer Museum of Art, to which he recently donated the Donald W. Hamer Sculpture Garden on the west side of the building-and Pennsylvania Centre Stage.

He is both a manufacturer and a conservationist. Through his work with ClearWater Conservancy, Mr. Hamer puts his own resources into protecting natural resources for the future and is committed to completing the industrial process at his company in the most environmentally sound manner possible.



Donald W. Hamer

A native of Byron, Ill., Mr. Hamer grew up in a Midwestern community where most people either operated a farm or owned their own business. His father owned a gas station and encouraged him to be his own boss. Mr. Hamer credits his high school principal for encouraging him to go to college and helping prepare him by tutoring him in subjects not covered by his high school.

After college, Mr. Hamer served in the Navy in

the latter part of World War II and again during the Korean Conflict. In the 1950s, he worked in the ceramics industry in Chicago and eventually took a job as a chief engineer at the Erie Technological Products plant — now Murata-Electronics — that brought him to State College.

In 1969, Mr. Hamer left Erie Tech to form State of the Art. He originally intended the company to provide educational seminars and consulting on thick-film technology, a technique used in the manufacture of resistors and capacitors. When a buyer in France commissioned the company to manufacture a small number of chip resistors, the business became the manufacturing concern that it is today.

Mr. Hamer received his first bachelor's degree from The University of Illinois in ceramic engineering in 1945. He earned his master's of business administration in 1958 from The University of Chicago, and earned a second bachelor's degree in electrical engineering from Penn State in 1968.

Honors awarded to Mr. Hamer include the Microelectronics Society's Daniel C. Hughes Award for his many technical and educational contributions to the advancement of hybrid microelectronics technology, the Buessens Award from Penn State for lifetime achievement in electronic materials and the Teddy Roosevelt Conservation Award, which President Bush presented to him in 1992. He received an Outstanding Alumnus award from the College of Engineering and the Engineering College Alumni Award for Distinguished Service in Engineering from The University of Illinois.

Mr. Hamer and his wife, **Marie Bednar**, reside in Bellefonte. The dinner will begin at 7 p.m., preceded by a reception beginning at 6 p.m. For more information about how to obtain reservations and make scholarship gifts in Mr. Hamer's honor, contact **Barbara Sarra** in the University's Office of Annual Giving at (814) 863-2052.

Horror movie actress donates sculpture of books to Pattee

Hazel Court Taylor, well-known for her roles in horror movies of the 1950s and 1960s as well as stage and television roles in her native England and the United States, is donating a sculpture to be unveiled in Pattee Library on Friday, Oct. 27. The sculpture, carved by Ms. Taylor herself, is a representation in marble of three books with an eternal flame emerging from the third book. The work is titled "Knowledge is Eternal" and will be displayed in the LIAS Room until the Paterno Library is complete.

Ms. Taylor studied at the London Academy of Dramatic Art and starred in the television series "Alfred Hitchcock Presents." She appeared in "The Raven" with Boris Karloff and also shared the screen with Vincent Price and Ray Milland in "The Premature Burial." After the birth of a son in 1967, she gave up her acting career and dedicated her talents to art. For the past 12 years she has studied in Pietrasanta, Italy. Ms. Taylor's most recent creation can be seen in the lobby of the Harpers Group in San Francisco.

Ms. Taylor will be made the actor/director/producer **Don R. Taylor**, graduate of Penn State class of 1942. He appeared in such classic films as "Naked City," "Stalag 17," and "Father of the Bride." He directed "Omen II," "Tom Sawyer," and "Escape from the Planet of the Apes." Both Hazel and Don Taylor are longtime friends of the University Libraries; the donation of her sculpture is their latest gift.

Eight Fulbright Scholars visit University

Eight Fulbright Scholars and lecturers from other nations are now visiting or will soon visit Penn State to teach, consult and conduct research under the sponsorship of the J. William Fulbright Foreign Scholarship Board and the United States Information Agency.

"In the 50th year of the Fulbright program, Penn State is continuing its tradition of hosting visiting Fulbright Scholars," **H. Mary Gage**, University Fulbright Program adviser in the Office of International Programs, said. "These distinguished people enrich our campus with their collaborative research and they also give us a better understanding of other countries and perspectives by living and working with us."

Fulbright grants to the U.S. are awarded on the basis of international competition and a peer review conducted by the Council for International Exchange of Scholars. The program represents a significant part of the federal government's commitment to international educational exchange. On returning to their home institutions, Fulbright Scholars share their experiences at Penn State through seminars, meetings and publications.

The 1995-96 visitors include:

■ **Mohammad Abdulsalam**, assistant professor in chemical and materials engineering at King Abdulaziz University in Jeddah, Saudi Arabia, is involved in a study of localized corrosion that focuses on crevice corrosion. He is working with **Howard Pickering** of the Department of Materials Science and Engineering.

■ **Martin Ibarra**, lecturer with the National Autonomous University of Nicaragua in Leon, is researching programming language. He is working with **J.M. Lambert** in the Department of Computer Science and Engineering.

■ **Kazimierz Krzysztofek**, head of the Research Department for New Problems in Culture at the Insti-

tute of Culture in Warsaw, Poland, will study culture, market and democracy in East-Central Europe. He will work with **Michael Bernhard** in the Department of Political Science.

■ **Youn Sook Lee**, professor and head of the Department of Housing and Interior Design at Yonsei University in Seoul, Korea, is developing a housing model for the elderly. She is working with **Phyllis Adams** in the Department of Agricultural and Extension Education.

■ **Emmanuel Matateyou**, assistant professor in the Department of French at the University of Yaounde I in Yaounde, Cameroon, is conducting research on an analytical dictionary of Bamun proverbs. He is working with **Thomas A. Hale** in the Department of Comparative Literature.

■ **Krishna Roy**, reader and head of the Department of Philosophy at Jadavpur University in Calcutta, India, is studying problems and prospects of Hermeneutic Movement and its impact on the 20th century. He is working with **Joseph Kockelmans** in the Department of Philosophy.

■ **Galina Vasilyeva**, senior researcher with the Laboratory of Biogeochemistry of Agrolandscapes at the Institute of Soil Science and Photosynthesis in Pushchino, Russia, will conduct research on microbial detoxification of soil-bound chloroamines. She will work with **Jean-Marc Bollag** in the Laboratory of Soil Biochemistry at the Center for Bioremediation and Detoxification.

■ **Anatoliy Yereima**, lecturer with the Department of Slavic Philology at Kyiv Shevchenko University in Kyiv, Ukraine, will teach a practical course of modern Ukrainian. He will work with **Michael Naidan** in the Department of Russian and East European Studies.

Three appointed as Administrative Fellows

Three Administrative Fellows have been appointed for the 1995-96 academic year.

■ **Robin L. Anderson**, senior information systems consultant in the Office of Administrative Systems, will serve under the mentorship of Gary C. Schultz, senior vice president for finance.

■ **Claudia A. Limbert**, associate professor of English and women's studies at the Shenango Campus, will serve under the mentorship of Robert E. Dunham, senior vice president and dean of the Commonwealth Educational System.

■ **Judy L. Ozment**, assistant professor of chemistry at the Osgontz Campus, will serve under the mentorship of John A. Brighton, executive vice president and provost.

At University Park, Ms. Anderson provides technical direction, guidance and training for using information technology to improve productivity in administrative units. She also manages the Administrative Training and Support Center staff. She holds an M.A. in education from Michigan State University and a B.S. in education from Eastern Michigan University.

She came to Penn State in 1987, working first as an information specialist and then as an Integrated Business Information System (IBIS) training coordinator, both with the Office of Administrative Systems, before assuming her current duties in 1993. Earlier, she was an information center analyst with Paul Revere Companies in Worcester, Mass., and taught for 10 years in Michigan and Virginia public schools.

Among other activities, Ms. Anderson serves as a coordinator with the Task Forces for Innovation in the Corporate Controller's area, as a member of the Eberly College of Science Continuous Quality Improvement (CQI) Team, and as a member of the University Committee on Continuing and Distance Education Computer Conferencing. She was a founding member of the Professional Women at Penn State and was named to the Achieving Women of Penn State by the University's Commission for Women in 1990. She is a



Robin L. Anderson



Claudia A. Limbert



Judy L. Ozment

member of the Nittany Valley Chapter of the American Society for Training and Development and of the National Association of Female Executives.

At Shenango, Dr. Limbert has taught in English and women's studies since 1988. The first person in her family to graduate from high school, she now holds a Ph.D. in English literature and an M.A. in fiction writing, both from Boston University, and a B.A. in a triple major—English, history and education—from Bethel College in North Newton, Kansas.

Among other topics, she has published on the works of the 17th-century poet, Katherine Philips, who was also the subject of the 800-page dissertation she completed while working as a teaching fellow. She is a frequent participant at Midwest Modern Language Association conferences, a member of the executive council of the Northeast Modern Language Association, and was a recent keynote speaker for an International Conference of Women in Higher Education meeting in San Francisco.

Dr. Ozment is a winner of the 1994 Penn State Shenango Teacher of the Year Award and has served as secretary and chairperson of the Faculty Senate at Shenango. She has also been on the ad hoc Committee on CES Faculty Reductions and the Beaver-Shenango joint CEO Evaluation Committee. In addition, she founded a faculty/staff women's group known as Chrysalis and a Quality of Life Team for the campus.

Dr. Ozment holds a B.S. in chemistry from the University of California at Davis and a Ph.D. in physical chemistry from the University of Utah. She joined the University faculty in 1986, before which, she worked as a post-doctoral fellow with the University of Washington, as a graduate fellow at the University of Utah, and as an instructional assistant at the American River College in Carmichael, Calif.

With Penn State, Dr. Ozment served as chair of the Osgontz Faculty Senate in 1993-94 and works on various standing and ad hoc committees for the group. She is a member of the Campus Future Committee and Campus Strategic Planning Committee and chaired the 1994 Osgontz Campus CEO Search Committee. She also serves as the campus department coordinator for chemistry and as co-coordinator of the new B.S./B.A. Science Degree Program at Osgontz.

Dr. Ozment is a member of the American Chemical Society, the American Association for the Advancement of Science, and the American Association of University Women. She is co-author of a 1992 paper published in the *International Journal of Quantum Chemistry*, a 1993 winner of the University's Milton S. Eisenhower Award for Distinguished Undergraduate Teaching, and a 1992 winner of the Osgontz Campus' Award for Outstanding Teaching.

The Administrative Fellows Program is designed to provide an opportunity to enhance the administrative talents and qualifications of women and minorities by involving them in mentorship experiences with top-level administrators at the University.

The program provides opportunities for Fellows to participate in a wide range of decision-making processes, learning activities, and program management, so they are better equipped to handle the challenges of higher education administration. The Fellows Program also will help create a pool of qualified women and minorities for potential administrative vacancies, both inside and outside the Penn State community.

Online listserv keeps financial aid administrators up-to-date

If you think figuring out a college financial aid form is complicated, just imagine how difficult it is for university financial aid administrators to keep up-to-date on bank loan regulations, and state and federal aid legislation, as well as their own college scholarship and loan programs.

While some college and university aid offices are particularly adept at working with changing requirements and creating innovative aid packages to help make college affordable, others have lacked the resources.

Now, instead of operating independently, thousands of financial aid specialists in the U.S., Canada and more than 16 other countries share information and advice on Finaid-L, a listserv list or bulletin board developed at Penn State by Robert E. Quinn, director of computer services in the Office of Student Aid. The service is free, but membership is restricted to the higher education financial aid community.

It was started the list because we wanted to know how other schools were solving problems. Even though Penn State, as a national research university, is quite different from, say, a single-campus

liberal arts college, we wanted to know more about how others were being innovative," Mr. Quinn said.

Peter M. Weiss, systems engineer for teleprocessing in the Office of Administrative Systems, helped establish the list in May of 1992, and sent an announcement that it was up and running to a "New Lists" bulletin board on the Internet. Finaid-L got a few subscriptions right away, but remained quiet while the new subscribers waited to see what type of conversations were going to take place. Mr. Quinn then sent a message to the list indicating a few topics he wanted to discuss and listed such things as voice mail. Finaid-L began to pick up speed with about 400 subscribers by September that year. It has now stabilized at about 2,400 subscribers from higher education, public and private funding agencies and other government offices concerned with financial aid.

"I never dreamed Finaid-L would become so popular. We were a very loose group of administrators before, mostly meeting only at conferences, but now we are a real community where

sharing solutions and frustrations on a daily basis is natural," Mr. Quinn said.

Typical topics in a day range from default and bankruptcy, impacts of inheritance, work study questions, dependency status, and needs analysis to Pell, Perkins and Stafford requirements. The focus is national, and the scope is information exchange and problem resolution relating to the administration of student financial aid at U.S. institutions of higher education.

Parents and students looking for information and assistance are invited to contact individual college or university financial aid offices.

Finaid-L is not the only electronic service now available to financial aid administrators. The Post-Secondary Education Network (PEN) is a subscription dial-up system with current documents relating to financial aid and some limited discussion abilities. The U.S. Department of Education has an on-line system; software vendors have help lines, and guarantee agencies also offer assistance electronically. But, Finaid-L is free and it allows administrators to exchange information and ask questions

of each other directly. Information on the system is indexed and can be accessed easily.

Since its first year, Mr. Quinn and other subscribers have held Finaid-L meetings at the national conference. He and colleagues Lee Gordon at Purdue and John Carver at North East Iowa Community College did a session on Internet tools for financial administrators at this summer's conference and had a chance to meet many Finaid-L subscribers in person. The success of the listserv has not only built a new community, it has fostered several such as Finnet-L for those who want to concentrate on the technical computer issues of financial aid administration.

"After three years, most professionals in the financial aid community would now be hard-pressed to live without Finaid-L," Mr. Quinn said. "It forces you to keep up-to-date on issues in financial aid management. It's become a community for me and an asset to Penn State as the provider of information to others."

Nittany Lion lawn art?

It's true, sports fans. A team of Penn State graduate students has helped a Windber, Pa. firm develop the first concrete version of the University mascot suitable for your very own turf.

A faithful 100-pound rendition of the 13-ton original, this little Penn State Nittany Lion may even be the only concrete example of a U.S. university mascot designed for use as yard art.

The lawn lion, which costs \$150 in standard tan, was launched as a CC+ Inc. product Sept. 9 at the first Penn State football game of the season.

Phil Banks, a master of engineering candidate in the College of Engineering and **John Stutch**, an MBA candidate in The Smear College of Business Administration, helped CC+—a two-man operation run by Bob Dusack and Henry Swinstinski apply for and obtain a license for use of the Nittany Lion image, found an artist to sculpt the model for the lawn ornament mold and got advice on concrete formulations from the University's Materials Research Laboratory.

Both graduate students are part of Penn State's Entrepreneurial Market Research Services Center (EMRSC), which helps entrepreneurs in the 38 counties in northern and central Pennsylvania that comprise the most rural part of the state. The center is supported by a grant from the Ben Franklin Partnership Program, a Pennsylvania Department of Commerce Economic Development Initiative, and a Business Assistance Demonstration grant from the U.S. Department of Agriculture.

The lawn lion is the first yard art for the EMRSC, which has provided help to more than 60 companies since its founding in 1993.

Annual Career Fair being held today

More than 75 corporations and organizations are expected to be on hand for the ninth annual Smear College Career Fair being held today in the Hetzel Union Building (HUB) on the University Park Campus.

Each year, this event attracts hundreds of undergraduate and graduate students interested in exploring their career options. Company representatives help by providing specific information about their organizations or with more general advice about the industry or marketplace in which their firms operate. Displays and booths will feature slides, photos, brochures and other informational aids.

Sponsored by The Smear College Corporate Associates Program and the college's Business Student Council, the fair will be held in the HUB Ballroom and Ray Lounge ("Fishbowl"), from 10 a.m. to 4 p.m. Among the businesses represented will be: Air Products and Chemicals Inc., American Management Systems, Andersen Consulting, Armstrong World Industries Inc., AT&T, Eaton Corporation-Cutler Hammer, Ernst & Young LLP, General Electric, IBM Corp., Macy's East, May Department Stores Co., MBNA America, Nabisco Inc., Philip Morris USA, Phoenix Home Life, Pizza Hut Inc., PPG Industries Inc., Price Waterhouse LLP and Towers Perrin.

Parents and Families Day is Sept. 23

Parents and families of Penn State students at the University Park Campus are invited to attend a full day of tours, open houses and educational programming beginning at 9:30 a.m. Saturday, Sept. 23.

Registration will be held from 9:30 a.m. to 1 p.m. in the Hetzel Union Building. Educational seminars begin at 10 a.m. in the HUB with a session on transition issues followed at 11 a.m. by a session on Penn State's ranking and reputation, a general question and answer session for parents at 1 p.m., also in the HUB, and a session on "Severe Winter Weather, Tornadoes and Hurricanes: New Climate Trends or Media Hype?" at 2:15 p.m. in 112 Walker Building.

There will also be an Information Fair from 10 a.m.-2 p.m. in the HUB, incorporating town and campus organizations, and an opportunity to learn the dances of other countries with the International Dancers at 2 p.m. in 133 White Building. The Old Main Bell Tower will be open from noon to 5 p.m. and the Multicultural Resource Center will host an open house for parents of color at 3:30 p.m. The College of Communications, the Breazeale Nuclear Reactor and the Microcomputer Order Center will also have open houses. A schedule of times is available from the Parents and Families Office.

Campus bus tours, walking tours and tours of agricultural facilities are scheduled from 11 a.m. to 2 p.m.

Parents and families are also invited to join students in the residence halls for lunch and dinner for \$2.50 and \$4.50 respectively, and those staying for the evening can attend "Synergy: The Student Talent Show" in Schwab Auditorium at 8 p.m., or stargaze in Davey Laboratories, or attend Roadside Theater at Eisenhower Auditorium.

For more information, contact the Parents and Families Office at (814) 863-9424.

News in Brief

Meat sales

The Meats Lab began its fall meat sales schedule on Sept. 8, and will continue each Friday through Dec. 15. Meat is sold weekly on Friday between 1:30 and 4 p.m. There is usually a good selection of beef, pork and lamb cuts, as well as processed items such as summer sausage, regular sausage, hot sausage, scrapple, cured ham and bacon.

The Meats Lab is located in a white building directly across the road from Beaver Stadium.

For more information, call the Meats Lab at 865-1787.

Programs offered

The Center for Adult Learner Services is sponsoring "LIAS Research Overview," a program geared to graduate students or undergraduate adult learners interested in research. The program, set for 6-7:30 p.m. Thursday, Sept. 14, in 329 Boucke, will focus on:—Discussion of online research (LIAS, Uncover, ERIC);—Overview of resources and workshops;—Learn of subject specific library staff.

Anyone interested in attending or needing information, please contact the Center for Adult Learner Services at 863-3887 or stop by 323 Boucke.

The center also is sponsoring "Strategies for Academic Success," a program that will focus on:

—Classroom strategies (study groups, networking with other students and techniques to approach faculty);—Tutoring and other support services; and

—Employment opportunities as a tutor.

The program is scheduled for noon-1 p.m. Thursday, Sept. 21, in 329 Boucke.

Reception for gay, lesbian and bisexual community

A reception for the University's gay, lesbian and bisexual community and allies will be held from 5-7 p.m. Friday, Sept. 15, in the Colonial Room of the Nittany Lion Inn. The reception, co-sponsored by the Committee on Gay, Lesbian and Bisexual Equity and the Coalition of Lesbian, Gay and Bisexual Graduate Students, will feature light refreshments.

For more information, contact Jeannette Bragger at (814) 865-0214.

Women's Club

Penn State University Women's Club will welcome new members at its Fall Reception from 7:30-9 p.m. Tuesday, Sept. 19, in the Kern Graduate Center.

Women may register for 20 interest groups: antique study, book and play review, book exchange, bowling, bridge, dinners for eight, French and German conversation, fun with food, golf, hiking, knitting and crocheting, luncheons for six, mother's group,

needle craft, professional women, swimswimsuits and book discussion.

Volunteer service areas will be: Reading for the visually handicapped and The Volunteer Center of Centre Co., Inc.

Major events during the year, which are open to the entire membership, include trips to New York City, New Hope and Reading, Pa., a history of ARL presentation and tour of the Garfield Thomas Water Tunnel and a spring luncheon.

Computer security

Kathy Kimball, University computer, network and information security officer, will speak at a meeting of Professional Women at Penn State at 11:45 a.m. Tuesday, Sept. 19, in Eisenhower Chapel on the University Park Campus.

Her presentation, titled "Sniffing, Snooping and other 'S' Words...—Like Security: What Does This Mean When 'Surfing the Net?'" is part of brown-bag lunch meeting. Issues to be discussed include Internet security, local PC security, private file security and electronic mail security.

Professional Women at Penn State is a grass-roots group coordinated by University women in which participants can develop and maintain a communications network and serve as a resource for other Penn State.

The group welcomes attendance by both males and females in all job and student classifications at the University.

Fulbright program

The University now has 14 students studying abroad on grants administered under the 1995-96 Fulbright program. Ten awardees recently received baccalaureate degrees from Penn State and four are in Ph.D. programs.

Exhibit to honor Jerusalem's 3,000-year anniversary

Penn State Hillel, the Jewish Studies Program, the HUB Gallery and the Center for Ethics and Religious Affairs will host an exhibit in honor of Jerusalem's 3,000-year anniversary.

The exhibit, courtesy of the Israeli consulate in Philadelphia, is titled: "Israel: Archaeology from the Air" and consists of 25 placarded aerial photographs of major Israeli sites. The show runs from Sept. 21 through Oct. 5 in the Hetzel Union Building Reading Room on the University Park Campus.

At 7 p.m. Sept. 21 there will be an opening reception, which includes a slide display on the subject of Jerusalem throughout history.

For more information, call Hillel at (814) 863-3816.

Inn

continued from page 1

237 rooms — and each one is a little different.

"There's not a lot of duplication. Rooms may be similar, but rooms on the third floor may have dormers and the ones downstairs do not. So as you come in you identify with a particular room. It's something you remember and you would ask for again," Mr. Purdum said.

Bobbie and Al O'Donnell of Dunmore, Pa., do just that.

"We ask for room 2038 every time. It's our favorite," Mr. O'Donnell said.

The O'Donnells, who have a daughter attending Penn State, stay at the Inn for home football games, for student move-in days and sometimes, for no reason at all.

"The nicest thing about the Inn is that it's not a hotel. It's an inn," Mrs. O'Donnell said. "During the time we've been staying here, we have gotten to know everybody. There's a certain bellman that we ask for. We know the people who work behind the desk and they know us. We look forward to staying here."

With the addition of the new main lobby in 1992, the old lobby and reservation desk became obsolete. That, too, is changing. The area is gaining an air of presence. The Alumni Association now occupies the old reservation desk area. Their information kiosk is located in the old lobby. Plaques honoring the University's distinguished alumni will soon grace one wall. Eventually, curricula containing Penn State memorabilia will be displayed.

"We hope that someday the campus tours can begin and end here," Mr. Purdum said.

The designers also took delight in adding surprises to the rooms. In some rooms, guests will find a second vanity outside the bathroom, an extra accent table or a coffee maker. Other rooms have oversized chairs with ottomans. One room, which the Inn uses as a bridal suite, has an oversized shower and a Jacuzzi in the bathroom.

There's also a large spa in the Inn's new fitness room, and a putting green hidden away in the courtyard outside the fitness room.

"When you walk into this place, it gives you a great feeling. Everybody makes a big fuss over you and you forget your business day," Mr. O'Donnell said.

Renovating the 1957 section of the Inn was a bit easier, since the rooms in that section were already of adequate size. Instead of gutting the wing, they remodeled the existing rooms.

"This room type is probably more

consistent with a guest's expectations at a university inn, but still it's a comfortable room," Mr. Purdum said. "The bathroom is large enough. We kept the original tub, just put the tub surround around it, changed hardware and put in a pedestal sink. The section has an older feel, because we did it within the original space.

Although these rooms weren't cheap to redo, they were a fraction of the cost of what we had to do in the 1931 section."

The Nittany Lion Inn is carrying debt for the addition and renovations. Although the Inn is on University property and falls under the domain of Auxiliary Services, it gets no University funding. "All the renovations come strictly from operating revenues," Mr. Purdum said.

Not all areas have been renovated. The Colonial Room, once the premier banquet room at the Inn, will have to wait for its new look.

The addition of Whiskers Lounge in 1992 and the newly renovated dining room add a special ambience to the Inn as well. Partition walls and a built-in snaking down the middle of the dining room break up the once-cavernous area to create a more intimate dining experience.

More important than the renovations, however, is the level of service a hotel delivers. The Nittany Lion Inn has put a lot of emphasis on this area.

"You can have the Taj Mahal, but if the staff has no idea how to provide friendly, warm, sincere service, you have nothing," **Mike Conti**, operations manager at the Inn, said.

"I've known many businesses that work out of shacks — facilities that may not be all that attractive, but are so service-oriented that they're very successful. And I know other facilities that are just the opposite. The great thing about the Nittany Lion Inn is that we have both."

Photo: Greg Grieco

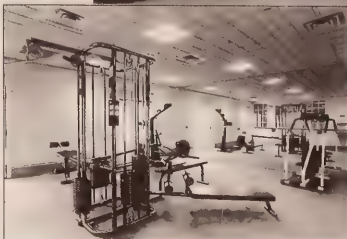
"It takes understanding people to have an outstanding hotel. I've been in this business 20 years, and I've never worked with this many outstanding professionals, at every single position, in every area of the Inn," Mr. Purdum said. "It's a great team. People are really focused on what we're here for, and



The renovations to the interior of the Inn are now complete. Some larger guest rooms include spacious sitting areas apart from the bedrooms to create a homelike atmosphere.

The Inn has also added a fitness center for its guests, left, complete with Nordic Trackers, StarMasters and a Universal Gym.

Photos: Greg Grieco



mine our direction, our future."

Ms. Winstanley was at the group's initial meeting and will participate in the team decisions.

"After graduation, I plan to go into sales or operations within the hotel industry. This internship is a wonderful experience. Someone like me, that gives this type of experience, will give me an edge in the job market."

Ms. Winstanley's job at the Inn's front desk and her participation in employee focus groups are what opened the door for her to this educational opportunity.

"That is what truly makes us different than any other hotel," Mr. Purdum said. "Teaching, education, research, we need to be a part of that. We can't just be another hotel. Otherwise, there's nothing that separates us from the competition."

The Nittany Lion Inn has received other distinctions as well. The book *Best Places To Stay: Mid-Atlantic States*, published in 1994, calls the Inn "an elegant center to a thriving college community," and the August 1995 issue of *Lodging Hospitality* rates the Inn 42nd in the nation in its rankings of top-performing suburban hotels.

Now that the renovations are done and the quality of service is at an all-time high, the Inn must work to maintain what it has. Mr. Purdum has a plan in place to continuously reinvest in the facility, retrofitting 20 percent of the rooms each year.

"We don't ever want to be in a position of having to go back and do massive rework," Mr. Purdum said. "We have to perpetuate the excellence. We have got to be the best. Our mission is recognition as America's finest campus inn, and that's how we have to function in order to achieve the level of success, of service, that Penn State wants to achieve. We're committed to doing just that."

—Annamerie Mount

that's to be a part of the educational process and to establish and maintain these very special relationships that we have. We don't take the University business for granted. We can't. We have to earn it. And everybody here takes that very seriously."

The educational aspect is what sets the Nittany Lion Inn apart from other hotels in the area. The Inn, in conjunction with the University's Hotel and Restaurant Management Program, offers three-credit internships that include classroom time and up to 24 positions per semester for students to work in any of the operational areas of the Inn. Classroom is focused on identifying areas needing improvement and then working through to resolve the problems. Formal presentations are given to not only the classroom instructors, but also to the Inn's management group. Examples of intern-created programs include the Inn's recycling program and its banquet storage organization system.

The Inn also has an executive internship program.

"We have a student who was a very successful and very high-performing employee, so she was given an opportunity to work directly with me this whole semester," Mr. Purdum said.

Elizabeth Ann Winstanley, a junior majoring in hotel and restaurant management, met with Mr. Purdum and President **Graham Spanier** to discuss the president's hospitality expectations, and she's participating in the strategic planning process for Auxiliary Services.

"We're part of Auxiliary Services. I report to **Tom Gibson**, who is in charge of the Inn, the Bryce Jordan Center, Penn State Scanticon and Housing and Food Services," Mr. Purdum said. "Those groups have never been together before. Now we're working together as a team to deter-

The ARTS

AT PENN STATE

Trombone Quartet

The Seventh Resolution Trombone Quartet will open the '95-'96 Bach's Lunch concert today at 12:10 p.m. in the Helen Eakin Eisenhower Chapel on University Park Campus.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and University Lutheran Parish.

The Seventh Resolution Trombone Quartet consists of four undergraduate trombone majors in the School of Music.

The audience is invited to take a brown bag lunch to eat in the Roy and Agnes Wilkinson Auditorium after the performance. Coffee and tea will be provided. The concert is open to the public.

French music on the trombone

Mark Lusk, associate professor of trombone, will present a recital at 8 p.m. Monday, Sept. 18, in the Recital Hall of the College of Arts and Architecture School of Music on the University Park Campus.

The program will feature French music ranging from the "Ava Maria" of Charles Gounod to "What Are You

Doing The Rest Of Your Life?" by Michel LeGrand.

Mr. Lusk has presented numerous recitals at universities and colleges around the country. Along with his teaching duties, he conducts The Penn State Trombone Choir and The University Brass, and performs with The Pennsylvania Brassworks.

The recital is free to the public.

Roadside Theatre

Roadside Theatre will perform "South of the Mountain" at 8 p.m. Saturday, Sept. 23, in the Eisenhower Auditorium on the University Park Campus. The performance opens the Center for the Performing Arts 1995-96 season.

Roadside Theatre employs storytelling, singing and acoustic instruments to tell the stories of Appalachia. Artistic Director Ron Short, a native of southwestern Virginia, finds his material in the stories of his kin. Short also acts in the work with two other performers.

"South of the Mountain" is the poignant, troubling and ultimately uplifting story of the dramatic changes faced by two generations of an Appalachian Mountain family when their farming way of life yields

to an industrial, coal mining lifestyle. A post-performance discussion will be featured as part of the event.

"Jammin' With Roadside Theatre," a story and music swap for community members, will be held from 7 to 10 p.m. Friday, Sept. 22, in the VFW building, 130 N. Barnard Street, State College. The event is free to the public; refreshments will be served.

For tickets or more information, contact the Arts Ticket Center, open Monday through Saturday, 8:30 a.m. to 4:30 p.m., at (814)863-0255. Outside the local calling area, phone (800)ARTS-TIX. All major credit cards are accepted.

"Distinctive Styles"

The free HUB "Distinctive Styles" concert series at University Park for the fall includes:

■ Sept. 20: The Michael Karn Quartet

Formed in 1993, this group draws on jazz's treasured past to create contemporary performances;

■ Oct. 12: One Alternative

A trio of two guitarists and an oboist/English horn player offers a musical blend of classical, folk, jazz and popular styles;

■ Oct. 24: Whiskey Tango

Take a whirlwind tour of the universal music experience of Celtic tribal dances, hot romantic tangos from South America and ancient Renaissance works with these two musicians.

■ Nov. 9: Jack Gladstone

Jack Gladstone, a Montana Blackfeet Indian, is a singer, songwriter and masterful storyteller.

■ Dec. 6: Andrew Roblin and The Pocono Mountain Men

Come hear this band play banjo, hawp harp, guitar, fiddle, mandolin and hammered dulcimer in a fusion of bluegrass and folk.

All concerts begin at 8 p.m.

Cultural Arts at DuBois

The Cultural Performing Arts Series begins at DuBois Campus on Sept. 21 in the Hiller Auditorium with a performance by ventriloquist/puppeteer Dan Horn and continues with six additional performances by a variety of artists.

Mr. Horn, who has performed professionally for 14 years, has appeared on Fox-TV's "Comic Strip Live" and "Sunday Comics," Showtime "Comedy Club Network," A&E's "Evening at the Improv," TNN's "Funny Business;" and "Stand-Up Spotlight" and "Comedy Central." The show begins at 7:30 p.m.

Rounding out the series are:

■ Angie Miller, acoustic musician, noon Friday, Oct. 6, in the Student Union;

■ Calvin Jones, classical piano, 7:30 p.m. Wednesday, Oct. 25, in Hiller Auditorium;

■ Jack Gladstone, acoustic folk, 7:30 p.m. Tuesday, Nov. 14, in Hiller Auditorium;

■ Ellen Cross, acoustic rock, noon Wednesday, March 13, in the Student Union;

■ Shanta-African Folk,

music/storyteller, 7:30 p.m. Wednesday, March 20, in Hiller Auditorium; and

■ Alpha Omega Players, theatre, 7:30 p.m. Tuesday, April 9, in Hiller Auditorium.

Cultural and Performing Arts Series performances are open to the public. A free brochure highlighting all performances is available by contacting Melissa Dutty at (814) 375-4766.

Search for Agricultural Sciences dean under way

A search committee has been appointed to identify candidates for the position of dean of the College of Agricultural Sciences. David A. Shirley, senior vice president for Research and Graduate Education, is committee chair.

Other members are: Theodore R. Alter, head, Department of Agricultural Economics and Rural Sociology and professor of agricultural economics; Blannie E. Bowen, C. Lee Rumberger and Family Professor of agriculture; Shorna R. Broussard, graduate student; Diane V. Brown, associate dean and affiliate assistant professor of agricultural and extension education; Daniel R. Deaver, professor of reproductive physiology; Nina V. Federoff, Verne M. Willaman Professor of life sciences and professor of biology and direc-

tor of the Biotechnology Institute; David H. Fowler, county extension director and senior extension agent; Richard H. Fox, professor of soil science; Larry A. Nielsen, director of the School of Forest Resources and professor of natural resources; C. Channa Reddy, Distinguished Professor and interim head of the Department of Veterinary Science; Lorraine M. Sordillo-Gandy, associate professor of veterinary science; and Wendy L. Trigena, undergraduate student.

The dean serves as principal academic leader and chief executive officer of the college and reports directly to the executive vice president and provost of the University. The dean is responsible for planning, budgeting, implementation, evaluation of programs of resident

instruction, research and extension. The dean also serves as the director of the Agricultural Experiment Station and director of the Cooperative Extension Service.

Candidates should have a demonstrated competence in a field of study commonly included in a college of agricultural sciences with credentials appropriate for appointment as professor in his or her discipline. The candidate should have a thorough familiarity with the philosophy and responsibilities of a large, research-oriented, land-grant institution. Past experience in academic administration with responsibility for personnel, programs and/or resources and a breadth of understanding and creative imagination necessary to develop policy in keeping with the multiple mis-

sions of the college are required. In addition, a wide acquaintance with agriculture and awareness of the college's responsibilities to the agricultural and food industries, forestry and many allied constituencies in dealing with their economic, social and technical problems is required.

Nominations, applications and inquiries should be submitted to David A. Shirley, chair of the Search Committee for the Dean of the College of Agricultural Sciences, The Pennsylvania State University, Box PS1, 201 Old Main, University Park, Pa., 16802. Closing date is Nov. 1; however, the search committee will continue to receive applications and nominations until a suitable candidate is selected.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, September 14

Bach's Lunch, 12:10 p.m., Eisenhower Chapel.
Center for Adult Learner Services, 6 p.m., 329 Boucke Bldg., "UAS Research Overview," geared to graduate students or undergraduate adult learners interested in research.

■ Palmer Lecture, 7:30 p.m., Palmer Lipcon Auditorium. William J. Dewey on "Headrests of Africa: Declarations of Status and Conduits to the Spirits."

School of Music, 8 p.m., Recital Hall. Kim Cook, cello, and Carl Blake, piano.

Friday, September 15

■ Gallery Talk, 3 p.m., Christoffers Lobby, Palmer Museum. Kay Picart on "Asian Art at the Palmer Museum."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Sanford Thatcher on "Scholarly Publishing and the Electronic Future."
School of Music Open House, 8 p.m., Music Bldg. I and II.

Saturday, September 16

■ Gallery Talk, 11 a.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "African Art at the Palmer Museum."

Sunday, September 17

■ Palmer Film, 2 p.m., Palmer Lipcon Auditorium. "Africa: Mastering a Continent"

Monday, September 18

School of Music, 8 p.m., Recital Hall. Mark L. Lusk, trombone.

Tuesday, September 19

Professional Women at Penn State, 12:05 a.m., Eisenhower Chapel. Kathy Kimball on "Sniffing, Snooping and Other 'S' Words...Like Security: What Does This Mean When 'Surfing the Net'?"

University's Club, 7:30 p.m., Kern Graduate Center. Fall Reception to welcome new members.

Wednesday, September 20

HUB "Distinctive Styles" Concert, 8 p.m., HUB Fishbowl. "The Michael Karm Quartet." Free admission.

Thursday, September 21

Center for Adult Learner Services, noon, 329 Boucke Bldg. "Strategies for Academic Success," focuses on classroom strategies, tutoring, and employment opportunities.

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel.

Friday, September 22

Palmer Lecture, 1:30 p.m., Palmer Lipcon Auditorium. Glenn Williamson on "Twentieth-Century Photography Before World War I."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Hilary Frost-Kump on "Creative Expression in American Places: Field Notes from an Arts Administrator Sojourning in a Geography Department."

■ Hillel, 7 p.m., Hetzel Union Building Reading Room. Opening reception for exhibit "Israel: Archaeology from the Air," with a slide display on the subject of Jerusalem throughout history.

School of Music, 8 p.m., Recital Hall. Gabriel Faure, A Sesquicentennial Celebration. Also Sept. 24.

Saturday, September 23

First day of Fall.
Parent's & Families Day.

Horticulture Show, Ag Arena, through Sept. 24.
Gallery Talk, 1:30 p.m., Christoffers Lobby, Palmer Museum. Cheryl Snay on "Looking at You: Portraits at the Palmer Museum."

Center for the Performing Arts, 8 p.m., Eisenhower Chapel. Roadside Theater "South

of the Mountain." For tickets call 863-0255.

Sunday, September 24

■ Film, 2 p.m., Palmer Lipcon Auditorium. "Africa: Caravans of Gold."

SEMINARS

Thursday, September 14

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. Mauro Carfano on "Scaling Laws and Correlation Functions in 3D and 4D Simplicial Quantum Gravity."

Computer and Science and Engineering, 4 p.m., 302 Pond Lab. Raghu Raghavan on "Three Dimensional Biomedicine: Mathematics, Physics, and Computers."

Center for Ethics and Religious Affairs, 7:30 p.m., 112 Kern Graduate Commons. Michael Dyson on "Values in Popular Culture."

Friday, September 15

Center for Gravitational Physics and Geometry, noon, 339 Davey Lab. B.S. Sathyaprakash on "Gravitational Radiation as a Tool to Weigh an Inspiring Binary."

Agronomy, 3:35 p.m., 107 ASI. Jon Chorover on "Colloid Chemistry of Iron Oxide."

Geosciences, September 19

Geosciences, 3:30 p.m., 341 Deike Bldg. Jon Chorover on "Surface and Colloid Chemistry of Highly Weathered Tropical Soils."

Biology, 4 p.m., 8 Mueller Lab. John Doebeley on "Genetics, Development and the Morphological Evolution of Maize."

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Jay Hirschman on "USDA Nutrition Policy Analysis."

Wednesday, September 20

Gerontology, 5:30 p.m., 110 Henderson Bldg. Living Center. Neil McLaughlin on "Social Issues/Transplant Decisions."

Thursday, September 21

Physics, 3:30 p.m., 101 Osmond Lab. Robert Schrieffer on "Condensed Matter Physics: Concepts and Opportunities."

Friday, September 22

Agronomy, 3:35 p.m., 101 ASI. Jerry Martin on "Pequea-Mill Creek Water Quality Project in Lancaster County."

CONFERENCES

Friday, September 15

Food Science Weekend, 150 attendees.
Penn State Scanticon. Through Sept. 16.
County Commissioners Workshop, 60 attendees. Nittany Lion Inn. Through Sept. 16.

Tuesday, September 19

Better Kid Care Conference, 150 attendees.
Penn State Scanticon. Through Sept. 20.

EXHIBITS

Hetzel Union Building Reading Room:

■ "Israel: Archaeology from the Air," 25 placarded aerial photographs of major Israeli sites, in honor of Jerusalem's 3,000-year anniversary. Sept. 21 through Oct. 5.

Palmer Museum:

■ "Psalms," non-objective paintings by West Coast painter John McDonough, through Oct. 1.

■ "Sleeping Beauties: African Headdresses from the Jerome L. Joss Collection at UCLA," through Dec. 3.

■ "Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

■ Reflects an international perspective



The Eastern Amputee Golf Association and Penn State's School of Hotel, Restaurant & Recreation Management will hold the 1995 Pennsylvania Amputee Open Golf Tournament on the Penn State and Tottrees courses Sept. 21-23. The event is free to the public.

Golf tournament for disabled to feature paralyzed pro

What do bunkers, rough and water hazards have to do with handicap? Everything...and nothing. These obstacles on a golf course affect every golfer's handicap, but they are just one more challenge for golf Pro Dennis Walters and 43 million other individuals with disabilities.

On Sept. 21-23, the University Park Campus and surrounding community will have the first ever opportunity to watch Mr. Walters and other persons with disabilities pick up their clubs and hit the links. The Eastern Amputee Golf Association and Penn State's School of Hotel, Restaurant & Recreation Management will be host for the 1995 Pennsylvania Amputee Open Golf Tournament on the Penn State and Tottrees courses. The event is free and open to the public.

"Golf is a wonderful recreation for anybody who has a physical problem—a great way to get exercise, for building confidence, for getting acclimated back into a social setting," Mr. Walters said. He should know. He made a fantastic comeback to the sport of golf after being paralyzed from the waist down. "Nothing is truly impossible," he said.

In conjunction with the tournament, a First Swinging Seminar and Golf Clinic is being held on Thursday, Sept. 21, at Penn State's golf courses. This event teaches adapted golf techniques to present and future rehabilitation professionals and golf pros. At 1:30 p.m., people with disabilities may receive free golf instruction. Anyone interested in participating should contact Tammy Buckley (863-8981) or Ralph Smith (863-8989).

About the event

What: 1995 Pennsylvania Amputee Open Golf Tournament
When: Sept. 21 to 23

Where: University Park's golf courses and Tottrees golf course, Patton Township

Admission: Free

Information: Contact Ralph Smith, 201 Mater Building, University Park, PA 16802, by phone (814) 863-4257; fax (814) 863-4257; or E-mail, un6@psu.edu.

At noon, Friday, Sept. 22, Dennis Walters will put on an exhibition at Penn State's golf courses. The nationally acclaimed "The Dennis Walters Golf Show" is a blend of skill, craft, comedy and showmanship that has earned him the accolades and recognition of such athletes as Jack Nicklaus, Gary Player and Arnold Palmer.

"Dennis has to be seen to be believed," Ralph Smith, director of this year's Pennsylvania Amputee Open, said. "He is a better golfer sitting down than most of us could ever hope to be standing up." Dr. Smith said. Attendance at Walters' "Golf Show" is free and open to the public.

For more information on the First Swinging Seminar and Clinic, The Dennis Walters Golf Show and the Pennsylvania Amputee Open Golf Tournament, please contact Ralph Smith at the School of Hotel, Restaurant & Recreation Management, 201 Mater Building, University Park PA 16802, by phone (814) 863-8989; fax, (814) 863-4257; or E-mail, un6@psu.edu.

Alumni Fellows

Arts and Architecture names educator and businessman

The 1995 Alumni Fellow for the College of Arts and Architecture, educator and businessman, **John F. Collins**, FASLA, APA, graduated from Penn State in 1959 with a bachelor's degree in landscape architecture. He continued his education at the Harvard Graduate School of Design where he was awarded a master of landscape architecture degree in 1961. Mr. Collins currently is the chair of the Department of Landscape Architecture and Horticulture at Temple University and president of The Delta Group, a multi-disciplinary firm based in Philadelphia practicing landscape architecture, planning, engineering and architecture.

Mr. Collins will visit the University Park Campus Sept. 17-19 meeting with graduate and undergraduate students in landscape architecture. He is scheduled to participate in an undergraduate graphics studio and a graduate student seminar in landscape architecture. At 8 p.m. Monday, Sept. 18, Mr. Collins will present "Recent and Not-So-Recent Works" in the jury space of the Department of Landscape Architecture in Engineering Unit D. This presentation is open to the public.

In 1959, Mr. Collins was awarded the first prize in the Jackson-Perkins Design Competition and in 1962 he received the Charles Elliot Traveling Fellowship from Harvard. The College of Arts and Architecture honored him with its 1984 Alumni Achievement Award, and he became a Fellow of the

American Society of Landscape Architects in 1993. His firm has won 30 major design awards and competitions from HUD, the American Society of Landscape Architects, the



John F. Collins

American Institute of Architects, *Progressive Architecture Magazine*, the Boston Society of Architects, the Pennsylvania Horticultural Society and the Associated Landscape Contractors of America. His extensive experience is reflected in projects for which he had a major design responsibility, including: the renewal of downtown Salem, Mass.; the new towns of Reston, Va., and

Coldspring, Md.; restoration of the Trans-Alaska Pipeline right-of-way and Philadelphia's Schuylkill Park; master plans for Dickinson College, Carlisle, Pa.; Navan Fort Park in Northern Ireland, Baltimore's Howard Street Transit Mall; and the Society Hill open space system in Philadelphia.

In addition to his expertise in design, he is

involved in horticulture, he founded and directed the Philadelphia Landscape and Nursery Training (P.L.A.N.T.) program at the Philadelphia Prison; P.L.A.N.T. Center City Landscape Maintenance Program; and the Collins Nursery. These initiatives in urban horticulture and open space maintenance are part of his contributions to training and job programs for prison inmates and inner city young adults.

A respected academic, Mr. Collins has taught at the University of Pennsylvania Department of Landscape Architecture and Regional Planning and at both the Drexel and Cornell departments of architecture. He has been a visiting critic and lecturer not only at Penn State, but also at Harvard, Washington University, Ohio State, Louisiana State, Queens University in Belfast and the University of Toronto, among others. In 1977 he was visiting professor at the School of Architecture and Planning in New Delhi, India.

He has served on numerous architectural advisory boards and design panels and is licensed in Pennsylvania, Maryland, Connecticut and Massachusetts. A resident of Philadelphia, he and his wife, Sandra, have four children.

The Alumni Fellow Award, presented by the Penn State Alumni Association, is presented in cooperation with the academic units. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.

College of H&HD to honor two industry leaders Sept. 19

Dorothy Choltz Foster, founder and president of a cosmetics/fragrance industry consulting firm, and **Ira M. Lubert**, managing director of two high technology venture capital funds, will be honored Sept. 19 as Alumni Fellows of the College of Health and Human Development.

While visiting University Park, the two will share their experience in classes and colloquia and will meet with students, faculty and administrators.

Ms. Foster of New York City received an M.S. degree in clothing and textiles from Penn State in 1968; she also holds a B.S. degree from Valparaiso University and a J.D. degree from Fordham University Law School. Although she is a member of the American Bar Association and the New York State Bar, she has chosen to continue her merchandising career rather than practice law.

She is president of DCF International, Ltd., which provides marketing, merchandising and sales consulting services to various segments of the cosmetics/fragrance industry. Her clients have included Elizabeth Arden, Revlon, Gucci Fragrances and Home Shopping Club Inc.

Often quoted in industry publications such as *Women's Wear Daily* and *Drug and Cosmetic Industry*, Ms. Foster serves on numerous committees of The Fragrance Foundation and is a member of Cosmetic Executive Women, the Fashion Group International and the National Retail Federation. She is also an adjunct professor at the Fashion Institute of Technology.

Before founding her own consulting firm in 1988, she served in a variety of management

positions at J.C. Penney Co. Inc., before becoming senior buyer of cosmetics and fragrances for Penney's, where she was responsible for a \$250 million department. Before that, she spent six years in management and marketing positions with Donahue Sales Corporation.



Dorothy Choltz Foster

director of Technology Leaders L.P. and Technology Leaders II L.P., both venture capital funds. He provides the funds with venture capital, management, marketing and technical expertise.

He also is a partner in PSRP Developers, Inc., a private corporation carrying on the future development of the Penn State Research Park. In addition, he is president and principal owner of IL Management Inc., a marketing/consulting firm, and oversees the acquisition strategy for GF Management, a company specializing in owning and managing under-performing hospi-

talities properties. He was described by the *Philadelphia Business Journal* as "a tough negotiator skilled at finding and buying distressed properties — and turning a quick profit."



Ira M. Lubert

He formerly was vice president of acquisitions at Safeguard Scientifics Inc., a New York Stock Exchange firm, and chairman and president of CompuCom Systems Inc. Earlier in his career he was a regional new business manager at IBM, where he was named to the 100 percent Club and was the first person in IBM history to win two consecutive "Eagle Awards" recognizing the top 10 percent of sales achievement.

A former Penn State wrestler and alternate member of the 1972 U.S. Olympic Wrestling Team, he has started wrestling camps which encourage development of youth in the sport. He is past president of the board of advisers at Penn State's Abington-Ogontz Campus.

The Alumni Fellow award, presented by the Penn State Alumni Association, is administered in cooperation with the academic units. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.

Institute bestows fellowships on four University faculty members

Four University faculty members have been elected fellows by the Institute for the Arts and Humanistic Studies.

The new fellows are: **Michael E. Broyles**, distinguished professor of music and professor of American history; **Anne A. Gibson**, professor of theatre arts; **Emily R. Grosholz**, professor of philosophy, and **Wilson J. Moses**, professor of history.

Dr. Broyles has an unusual breadth of expertise and scholarly inquiry, attaining national stature in the musico-logical sub-disciplines of music theory and cultural history. He has devoted himself to the study of the classic and romantic eras as well as to the history of American music.

He is the author of *The Emergence and Evolution of Beethoven's Heroic Style* (1987); *A Yankee Musician in Europe: The 1837 Journals of Lowell Mason* (1990), and *"Music of the Highest Class": Elitism and Populism in Antebellum Boston* (1992). His articles have appeared in the *Journal of the American Musicological Society*, *College Music Symposium*, and the *Musical Quarterly*.

Professor Gibson has established a national reputation as an outstanding scenic designer. Her professional credits include: *Utah Shakespearean Festival*, *South Jersey Regional Theatre*, the *Repertory Theatre of St. Louis*, the *Oregon Shakespeare Festival—Portland*, the *American Heartland Theatre*, *Actors' Theatre of Louisville*, and the *Empire State Institute for the Performing Arts*.

She is an all-class member of the United Scenic Artists, the professional design union, and has designed off-Broadway at the *Circle Repertory Company* and the *Provincetown Players*. She also has created designs for *Stephens College*, *Utah State University*, *Cornell University*, *California State University at Long Beach*, and *Penn State*, where she has been a faculty member since 1968.

Professor Gibson received the University's Faculty Scholar Medal for Outstanding Achievement in the Arts and Humanities in 1994.

Dr. Grosholz has had a distinguished career in both philosophy and poetry, receiving awards from the Guggenheim Foundation, National Humanities Center, and grants from the Alexander von Humboldt Foundation and the American Council of Learned Societies (ACLS). A leading scholar in the study of Descartes and Leibniz, she is the author of *Cartesian Method and the Problem of Reduction* (1991) and a number of journal publications in distinguished periodicals such as the *Journal of the History of Ideas* and the *Journal of Speculative Philosophy*.

Dr. Grosholz has established herself as one of the best young poets in the country. Three collections of her poetry are in print and a fourth is in progress. Her writing about poetry appears frequently in *Hudson Review* and other quarterlies. She has been asked to be a judge for the 1995 National Book Awards in poetry.

Dr. Moses is perhaps the single most distinguished historian of African American nationalism. He is the author of four books dealing with African and African American culture: *The Golden Age of Black Nationalism, 1850-1925* (1978, 1988); *Black Messiahs and Uncle Toms: Social and Literary Interpretations of a Religious Myth* (1982, 1993); *Alexander Crummell: A Study in Civilization and Discontent* (1989), and *The Wings of Ethiopia: Studies in African American Life and Letters* (1990). He is the editor of *Destiny and Race: Sermons and Addresses by Alexander Crummell, 1840-1898* (1992).

Dr. Moses has made contributions not just in analyzing African American culture but in establishing, expanding, and even correcting its base of primary evidence. He has shown the persistence and significance of a black, middle-class culture in nineteenth- and early twentieth-century America.

He was this year's recipient of the University's award for distinction in the humanities.



Emily R. Grosholz



Wilson J. Moses



Michael E. Broyles



Anne A. Gibson

College of Medicine's Graduate Research Forum set for Oct. 5-6

Graduate students of the College of Medicine are hosting the Eighth Annual Graduate Research Forum on Thursday, Oct. 5 and Friday, Oct. 6, at The Hershey Medical Center. The forum provides an opportunity for graduate students to present and exchange ideas and to recognize outstanding work being done at the College of Medicine.

Oral presentations will be held on Thursday from 10 a.m.-3 p.m., in the Hospital Auditorium of The Hershey Medical Center, followed by the keynote address, "What Happens to the Estrogen Receptor Ligand When the Receptor Binds Estrogen Response Element DNA?" given by Dr. Carolyn M. Klinge.

Posters will be available for viewing from 10 a.m. Thursday through 6 p.m. Friday in the anteroom of the Hospital Auditorium. Students will present posters from 10 a.m. to noon Friday, Oct. 6.

New procedures to boost recycling effort at games

An all-star team is being recruited to help make the 1995 season the best ever for recycling at Penn State football games, but the big winners will be the United Way and Centre Region Boy and Girl Scouts. The potential team members? Every one of the thousands of fans who pack Beaver Stadium and its parking lots during home games.

Fans have been recycling at Beaver Stadium since 1990, but this year, following a new game plan, the Office of Physical Plant and the Centre County Solid Waste Authority (CCSWA) are operating 20 recycling stations throughout the stadium parking lots. Fans are being asked to sort their recyclable glass and plastic bottles and steel and aluminum cans and bring them to the stations for collection at each home game.

Scouts from the Juniata Valley Boy Scout Council and the Hemlock Girl Scout Council are staffing the stations to answer questions on how the recyclables should be sorted.

The CCSWA will process the material for sale to Joseph Krentzman and Sons Inc., and all money made by the sale will become a part of Penn State's contribution to the United Way. In turn, the United Way will allocate the funds to the two Scout councils as a reward for their assistance with the project.

Krentzman and Sons has already agreed to a minimum payment of \$8,000 for the material sold, but with the help of all Penn Staters, the total amount raised could well exceed that figure.

"This project is indicative of the great things that can be accomplished when people join together in a spirit of cooperation," **Lamarine Hood**, dean of the College of Agricultural Sciences and current Penn State United Way Campaign chair, said. "I am very excited that we can do something for the environment and also contribute to the quality of life in our community by directing the money raised to the United Way."

The recycling stations project also involves the Department of Intercollegiate Athletics, the Steel Recycling Institute and the Glass Packaging Institute.

Promotions

Staff

Raymond P. Holsing, human resources officer in Office of Human Resources.

Jolie D. Hoover, staff assistant IV in Business Services.

Kenneth J. Hoover, network coordinator in College of Education.

Dixie J. Krutz, staff assistant VI at The Hershey Medical Center.

Lesia J. Light, patient account assistant at The Hershey Medical Center.

Corinthia J. McCall, staff assistant V in Business Services.

Patrick W. McFeeley, information

technology associate in Eberly College of Science.

Elizabeth F. McKinley, staff assistant V in Commonwealth Educational System.

Matthew L. Miller, publicity coordinator in University Arts Service.

Donald W. Moore, operations coordinator III in Computer and Information Systems, Telecommunications.

Judy C. Mudgett, audit manager in Corporate Controller's Office.

Cynthia E. Nicosia, administrative assistant III in Research and Graduate School.

Lawrence J. Pruss, director, Finance and Operations, in College of Agricultural Sciences.

Bethany N. Raney, coordinator, Support Center, in College of Agricultural Sciences.

Joanna Riggins, staff assistant VI in College of Agricultural Sciences.

Lisa A. Rose, staff assistant VI in College of Engineering.

Machelle L. Seiner, staff assistant IV in Office of The President.

Lisa D. Shawver, staff assistant VI in Office of Physical Plant.

LECTURES

Geography expert to join anniversary celebration

One of the world's leading experts on geography, **George J. Demko**, will speak at The Penn State Scanticon at 7 p.m. Thursday, Oct. 12, as part of the Geography Department's 50th anniversary celebration. Dr. Demko, who received his Ph.D. in geography from Penn State in 1964, will give a talk titled "Global Landscape of Danger: A Geographer's Perspective."

Dr. Demko's background includes a wide range of accomplishments, most notably his tenure as director of the Office of The Geographer, U.S. Department of State, from April 1984 to July 1989. During this time, he served as "America's highest authority on the world's real and ephemeral states" and was responsible for mapping itineraries for presidential trips and providing geographical analysis for global conflict and special guidance for many federal agencies. He also has acted as a consultant to the United Nations and the Microsoft Corp., and has been the recipient of five National Science Foundation grants and a Fulbright-Hayes faculty research scholarship.

Dr. Demko, an expert on regional social systems and economic development, has authored 16 books and published over 85 articles addressing geographical issues across the world. His latest book is titled *Kundering the World*. In 1986, he was recognized as an Outstanding Alumnus and a University Alumni Fellow by Penn State. In 1988, he was featured in *People* magazine.

A continuing and distance education service of the College of Earth and Mineral Sciences, cost of the lecture is \$10. A reception and books signing will follow the lecture. Tickets may be reserved by calling 1-800-PSU-TODAY (778-8632).

First labor-leader-in-residence to visit University Park

The Department of Labor Studies and Industrial Relations will host its first Distinguished Labor-Leader-in-Residence from Oct. 16 to 20 on the University Park Campus.

Lynn Williams, retired president of the United Steelworkers of America (USWA), will speak to a number of classes, present a seminar to the faculty, and also meet informally with students and faculty. He will also present a public lecture at 7:30 p.m. Tuesday, Oct. 17, in Kern Auditorium.

Mr. Williams, a graduate of McMaster University, began a 47-year career in the North American labor movement as a blue-collar worker in a Toronto factory. He subsequently served many years as an organizer and staff representative prior to his election in 1973 as director of the USWA's Ontario District.

In 1977 he won election as international secretary of the United Steelworkers, and in 1984 he was elected to the first of two terms as international president. During this period, he also served as vice president of the AFL-CIO.

Since his retirement in 1994, Mr. Williams has served as president of the Industrial Relations Research Association; been a consultant to a number of national and international governmental organizations, and served as a visiting lecturer at Harvard and Cornell universities.

His visit is sponsored by the Department of Labor Studies and Industrial Relations, the College of the Liberal Arts, and the Fund for the Improvement of Undergraduate Education.



George J. Demko



Lynn Williams

Nobel laureate to present Whitfield lecture Sept. 21

One of the most renowned theoretical physicists in modern times will present the 1995 Whitfield Lecture on Sept. 21 at the University Park Campus.

Robert Schrieffer, Nobel laureate and president-elect of the American Physical Society, will present a lecture titled "Condensed Matter Physics: Concepts and Opportunities" at 3:30 p.m. in 101 Osmond Laboratory. A tea at 3 p.m. in the second-floor overpass between Osmond and Davey laboratories will precede the lecture.

Dr. Schrieffer is known for his pioneering contributions to the theory of condensed matter. He helped unravel the origin of superconductivity by developing a theory that used an imaginative "pairing model" to explain the amazing ability of electrons to migrate through solids without any resistance. This idea, proposed in collaboration with the physicists Leon Cooper and John Bardeen, is called the BCS theory of superconductivity. The success of the model in explaining and predicting superconducting behavior led to

Dr. Schrieffer and his colleagues receiving the Nobel Prize in 1972.

Dr. Schrieffer received a bachelor's degree at the Massachusetts Institute of Technology in 1953 and a Ph.D. degree at the University of Illinois in 1957. After postdoctoral positions at the University of Birmingham and Copenhagen University, he held faculty positions at the University of Chicago, the University of Illinois, the University of Pennsylvania and the University of California at Santa Barbara before moving to Florida State University in 1991.

Dr. Schrieffer has been accorded virtually every high honor in science. Apart from the Nobel Prize, his honors include the Buckley Prize of the American Physical Society, membership in the National Academy of Sciences and the National Medal of Science.

The Whitfield Lecture, named in honor of Professor **George Whitfield**, a faculty member in the Physics Department for many years, is sponsored annually by the Department of Physics.

Historic preservation seminar Oct. 19

The Center for Studies in Landscape History, an entity within the Department of Landscape Architecture, will sponsor a continuing and distance education program titled "Asset or Liability: History in Your Community" at 7 p.m. Thursday, Oct. 19, at The Penn State Scanticon. The program, which will bring together a national panel of experts, will focus on the issues surrounding historic preservation and restoration in present-day communities.

Presenters will include **Charles Bimbaum**, coordinator of the Historic Landscape Initiative, a program of the National Park Service Preservation Assistance Division; T.

Allen Comp, heritage resources manager, Southwestern Pennsylvania Heritage Preservation Commission; and **Kenneth Helphand**, a landscape historian and professor of landscape architecture at the University of Oregon.

The session will be moderated by **Daniel J. Nadenicek**, assistant professor of landscape architecture at Penn State and director of the Center for Studies in Landscape History.

For more information or to reserve tickets, please call 1-800-PSU-TODAY (778-8632). Tickets for the event are \$10.

Penn State Harrisburg

Commission for Women talk Sept. 27

"There is No Such Thing as a Woman's Issue" will be a session presented by executive directors of the Pennsylvania Commission for Women from noon to 1:30 p.m. Wednesday, Sept. 27, in the Penn State Harrisburg Eastgate Center.

In this free presentation, **Rosemary T. McAvoy** and **Karen S. Fleisher** will discuss how the concerns of Pennsylvania's women are relevant to every citizen of the state. The two executive directors will outline the proactive steps the commis-

sion has planned for the next several years to address critical issues impacting women in Pennsylvania. The Commission for Women is an executive branch agency of the governor charged with ensuring fairness and opportunity for women in all aspects of life.

Registration for the lecture is necessary to ensure adequate seating. To register, call the center at (717) 772-3590.

Partings

Professor ends 33-year career as English department faculty member

Elmer Borklund, professor of English, has retired after 33 years as a member of the faculty of the English department. He is an authority on literary criticism, best known for *Contemporary Literary Critics* (1977 and 1983). The critical pieces in this book, a large collection of essays on all major English and American literary critics up to the time of its publication, were called "pointed, highly literate and substantial essays to be read, considered and digested."

Dr. Borklund, nominated by his department in 1986 for an AMOCO Foundation Outstanding Teaching Award, established the department's English Honors Program in the late 1960s and developed the first graduate course in literary criticism. He also taught the upper level undergraduate editing course in English for many years.

Physical Plant manager ends 29 years of service

Lloyd A. Niemann, manager, Utility Systems Engineering, Office of Physical Plant, has retired after 29 years of service.

He joined the University staff in 1966 as assistant to the head of Commonwealth Campus Maintenance and Operations.

Two of the major projects at the time," he recalled, "were construction of the Hershey Medical Center and the acquisition of the Capitol Campus property from the U.S. Air Force.

"The Commonwealth campuses were undergoing major growth at the time. In the next two years, the campus operations at a number of locations (Fayette, New Kensington, Delaware County, Wilkes-Barre, Worthington, Scranton, Schuylkill) were being relocated from rented facilities in the cities to their present locations with new buildings also being constructed and occupied at virtually all of the other campuses around the state. It was a challenge to outfit these, determine requirements and to participate in hiring the necessary staff personnel for all of these."

In 1968, Mr. Niemann was named head of Utilities in Maintenance & Operations at University Park with responsibilities for operation of the power plant, sewage plant, water system, electrical system and so forth. When Maintenance & Operations and Planning & New Construction were merged into the Office of Physical Plant (OPP) in 1972, he was named head of Mechanical-Electrical Planning & Design and was again responsible for facilities at all University locations across the state.

In 1977, he was named manager, Utility System Engineering.

Mr. Niemann was an active member of the international District Heating & Cooling Association. He is a life member of the American Society of Mechanical Engineers.

In the community, he has served in a number of public service positions including as a member of the State College Borough Water Authority, chairman of the College Township Parks and Recreation Committee, member of the Centre Area Transportation Authority (CATA), and chairman of the College Township Council and was chairman two years. Active in the Boy Scouts of America, he has served in a variety of positions including scoutmaster of

Troop 31 for a number of years and as scoutmaster to the World Jamboree in Calgary, Canada. Currently he is district chairman of the Nittany Mountain District of BSA.

His wife, Marilyn, has taught kindergarten in a local preschool for a number of years. Two of his sons, Greg and Tim, are Penn State graduates. His other son, Eric graduated from the U.S. Military Academy. Mr. Niemann graduated from the U.S. Merchant Marine Academy, and he and Marilyn also are both alumni of the University of Nebraska.

Associate professor retires with emeritus rank

Milton J. Bergstein, associate professor of marketing, has retired with emeritus rank after a more than 50-year association with Penn State as student, teacher, sportscaster and public speaker.

Professor Bergstein estimated he taught some 15,000 students at Penn State. Many of them probably recall the "this is a true story" introduction to the anecdotes he told to bring real-life experience into the classroom.

"My philosophy of teaching," he said, "is embodied in my belief that teaching is a privilege and not a penalty. I also believe that teaching at the highest level of my ability is not only a privilege but also a duty."

A 1943 Penn State graduate with a B.A. degree in political science, he served in the Marine Corps for three years and was a member of the battalion that raised the American flag over Mount Suribachi on Iwo Jima. Following his release from the Philadelphia Naval Hospital for treatment of shrapnel wounds, he returned to State College in 1946 and joined the staff of WMAJ radio, where he was involved in programming and broadcasting Penn State sports.

While at WMAJ, where he served as general manager from 1956 to 1976, he was an adjunct faculty member in the Speech Department and in The Smell College of Business Administration. In 1976 he joined The Smell College's Department of Marketing as a full-time faculty member, teaching management of the sales force and business public relations, and serving as head of the internship program. From 1978 to 1986, he also served as director of external relations for the college.

Professor Bergstein, who received a master's in speech communication at the University in 1950, is a two-time winner of the Fred Brand Jr. Award for Outstanding Undergraduate Teaching and he also won the Fred Brand Jr. Award for Undergraduate Advising. In 1988, he was honored as the Penn State Renaissance Man of the Year. While a full-time faculty member, he made presentations on marketing, demographics and productivity to a wide range of corporations, associations and organizations in 42 states, as well as several foreign countries.

In retirement, he plans to teach for one year on a part-time basis in the Department of Marketing, continue as head of the internship program and serve as an adviser at large for the department. He currently is writing a book tentatively titled *Fifty Years at Penn State With Time Out for Iwo Jima*. He will continue his interest in Penn State sports by beginning his 43rd

year as master of ceremonies for the State College Quarterback Club.

Professor Bergstein and his wife, Elizabeth, a 1949 Penn State graduate, are the parents of two sons, Andrew, a Penn State graduate, and Michael, who holds B.A. and MFA degrees from the University, and a daughter, Nan. They have one grandson.

Evan Pugh Professor retires; will continue his research

Herschel W. Leibowitz, internationally renowned psychologist and vision researcher, has retired as Evan Pugh Professor emeritus of psychology. The Evan Pugh Professor of more than 200 publications, Dr. Leibowitz has conducted ground-breaking research on visual perception and on the prevention and treatment of vision-related difficulties including problems of nighttime driving and railroad crossing accidents.

Dr. Leibowitz came to Penn State in 1962 from the University of Wisconsin, Madison, where he was on the faculty from 1951 to 1960. A desire to become involved with applications of his research led him to move to IBM in 1960, where he was a human factors psychologist in the Federal Systems Division and the Research Center. He was named an Evan Pugh Professor at Penn State in 1977.

He has also taught at MIT and the universities of Maryland and Florida; has served as a visiting scientist in Japan; and has done research at the Institute for Perception in The Netherlands, University of California, Berkeley, University of Freiburg, Germany, NASA Ames Research Center, the University of Michigan Transportation Research Institute, and the Center for Advanced Study in the Behavioral Sciences at Stanford University.

His public service includes membership on many government research advisory boards, including the National Science Foundation, the National Institutes of Health and the National Research Council. In addition, he has performed special projects with the Institute for Defense Analysis, the Department of Defense, the Naval Studies Board of the National Research Council, the North American Treaty Organization, the Advisory Group for Aerospace Research and Development, the U.S.-Japan Cooperative Science Program, the Max Planck Society and the U.S. Olympic Committee.

Dr. Leibowitz's honors include the American Psychological Association's Distinguished Scientific Award for the Applications of Psychology, a Guggenheim Fellowship, the Prentice Medal from the American Academy of Optometry, fellowships from the Alexander von Humboldt Foundation and the Center for Advanced Study in the Behavioral Sciences, election to the Society of Experimental Psychologists, the Van Essen Award from the Pennsylvania Optometric Association, and an honorary doctor of science degree from the State University of New York.

Dr. Leibowitz and his wife, Eileen, have been married since 1949. They have two children and five grandchildren. During his retirement, Dr. Leibowitz plans to continue his research, writing and consulting.

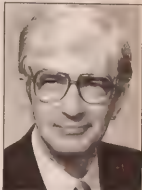
Joe Zimmerman, painter A, Office of Physical Plant, from June 1, 1970, to Dec. 31, 1994.



Lloyd A. Niemann



Milton J. Bergstein



Herschel W. Leibowitz

Awards

Bunting Institute fellowship awarded to associate professor

Robin Becker, associate professor of English, has been awarded a 1995-96 fellowship from The Mary Ingraham Bunting Institute of Radcliffe College.

The Bunting Institute is a major postdoctoral research center for women scholars, scientists, creative writers and artists.

In residence in Cambridge, Mass., approximately 40 fellows work on projects that promise to make significant contributions to their fields and careers.

Since its founding, the institute has supported almost 1,000 women. Each year, hundreds of women compete for the fellowships which include full-time stipends.

Ms. Becker, a poet who teaches in the MFA



Robin Becker

program, is the author of *Giacometti's Dog* (University of Pittsburgh Press, 1990) and *Anti-American Girl* (University of Pittsburgh Press, spring 1996).

She has received fellowships in poetry from the Massachusetts Artists Foundation and the National Endowment for the Arts. Her poems and book reviews have appeared in *The American Poetry Review*, *The Boston Globe*, *The Kenyon Review*, *Ploughshares*, *Prairie Schooner* and many other publications.

She serves as a member of the board of directors of the Associated Writing Programs, a consortium of university writing programs, and as poetry editor for *The Women's Review of Books*.

Two WPSX-TV programs nominated for Emmys

Two WPSX-TV productions earned Emmy nominations in the 13th annual Mid-Atlantic Emmy Awards competition honoring locally produced news and programming in the Pennsylvania, New Jersey and Delaware region.

The nominations were made by the Philadelphia Regional Chapter of the National Academy of Television Arts and Sciences.

"It's always gratifying to receive recognition for our efforts and even more so when it comes from our industry colleagues," Mark Ernstling, general manager of Penn State Public Broadcasting, said. "It's really a testament to the quality of our work and the continued support of our viewers."

The Penn State public television programs nominated for Emmy Awards are:

■ "Center Court with Rene Portland" — Outstanding Sports Series.

■ "Confronting AIDS in Rural America" — Outstanding Public Affairs Program.

The awards will be presented Sept. 23 at the Independence Seaport Museum in Philadelphia.

Professor earns Fulbright grant

Gideon S. Golany, distinguished professor of urban design in the College of Arts and Architecture Department of Architecture, has been awarded a Fulbright grant to conduct research on "Geo-Space Dwellings in Copcododa: Environmental Impact and the Art of Design in Turkey."

Dr. Golany specializes in geo-space design, urban design with climate and new-town planning. He has taught at such institutions as the Technion-Israel Institute of Technology, Cornell University and the Virginia Polytechnic Institute. He has been a visiting professor at universities throughout the world and has received an honorary professorship from three universities, including the China Academy of Management Science, and is foreign director of the China Research Society of Ancient Architecture.

In addition to 27 monographs and numerous articles, Dr. Golany has written or edited more than 25 books. His research has been supported by grants from the National Academy of Science, the Fulbright Commission and Penn State. He has also received the Faculty Scholar Medal for Outstanding Achievement in the Social and Behavioral Sciences and the Research/Creative Development Award.

Dr. Golany is one of approximately 2,000 United States grantees who will travel abroad for the 1995-96 academic year under the Fulbright Program.

Two to receive Nobel Laureate award

Paul S. Weiss, associate professor of chemistry, and Stephan J. Stranick, formerly a graduate student of Dr. Weiss, are the recipients of the 1996 Nobel Laureate Signature Award for Graduate Education in Chemistry, sponsored by J. T. Baker Inc. Administered by the American Chemical Society, the award is given annually to an outstanding student for graduate work done in the field of chemistry and to his or her faculty preceptor.

Dr. Stranick's Ph.D. thesis, "An Atomic-Scale View of Motion and Interactions on Surfaces," was judged as one of the best dissertations written last year in the field of chemistry.

Dr. Stranick and Dr. Weiss will receive their awards at presentation ceremonies during the spring of 1996.

"What really put us in a position to win this award is that Penn State and the sponsors of our research were willing to support high-risk/high-reward experiments,"



Paul S. Weiss

Dr. Weiss said. His research sponsors include the National Science Foundation, Office of Naval Research, Biotechnology Research and Development Corp. and Shell Foundation.

Dr. Stranick, who received his doctoral degree in chemistry from Penn State in May, was selected on the basis of his Ph.D. dissertation to receive the 1995 Xerox Award for Penn State materials research and also received the American Chemical Society Proctor & Gamble Award in Physical Chemistry in 1994. He now is a visiting scientist at Du Pont's Central Research and Development Laboratory in Wilmington, Del., where his current research interests involve the development and application of near-field scanning optical microscopy for the characterization of materials and biological systems.

Dr. Weiss, an experimental chemist known for his surface microscopy research, has won a number of awards, including a National Science Foundation Presidential Young Investigator award in 1994 and an Alfred P. Sloan Foundation Fellowship in 1995.

In 1994 Drs. Stranick and Weiss together received a B. F. Goodrich Collegiate Inventors award for their invention of a tunable alternating current scanning tunneling microscope. The invention is useful for imaging the surfaces and recording the spectra of insulating films and solids.

Three in Student Affairs go 'Above and Beyond'

Three members of the Student Affairs staff are recipients of the annual "Above and Beyond Award" given to recognize and reward employees for superior performance in completing special projects and for going "above and beyond" in carrying out their job responsibilities.

Recipients of the 1994-1995

Above and Beyond Award are:

■ **Ralph DeShong**, associate director of Career Development and Placement Services;

■ **Rose Ennis**, staff assistant in the Office of Judicial Affairs; and

■ **Margaret Spear**, director of University Health Services.

The criteria for the award are

cooperation, productivity, creativity, innovation, leadership and vision; energy and enthusiasm; successful completion of projects; and a willingness to "go the extra mile."

This award is one component of a Rewards, Recognition and Incentives Program within Student Affairs.

New inspection device to improve nuclear power plant safety

University engineers have developed a new inspection device to look for cracks and defects in the thousands of miles of steam generator tubing in nuclear and fossil fuel power plants.

The device, called a guided wave bore probe, can inspect 50 feet or more of pipe at one time without being moved. It offers 100 percent cross-sectional coverage and has increased sensitivity over current techniques. The probe can detect cracks with depths as small as 10 percent of wall thickness over just 30 degrees of circumference and can also inspect water-filled or immersed pipes with no loss in sensitivity.

Joseph L. Rose, the Paul Morrow Professor in engineering science and mechanics, developed the probe. He said it is an ideal screening tool to identify quickly the sections of tubing that need further point-by-point examination.

The new probe promises to increase the cost effectiveness of inspections, as well as to detect tubing flaws.

The bore probe works on the acoustic principle well known to apartment

dwellers that pipes tapped at one location will carry or guide the sound wave along the pipe so that the tapping can be heard at other locations along its length.

Inaudible, ultrasonic waves can be guided along pipes in this way as well.

"The concept of using cylindrically guided ultrasonic waves for improved inspection efficiency has been around for many years," Dr. Rose said.



Joseph L. Rose has developed a probe that uses a new technique to inspect steam generator tubing in nuclear and fossil fuel power plants.

Photo: Greg Grieco

"However, the behavior of these waves is complex compared to bulk waves currently used in inspection devices and this complex behavior is probably why the technology transfer process has been so slow."

The key to Dr. Rose's success was finding the right kind of vibration or "tapping" to produce a guided wave with the necessary penetration power and defect sensitivity. The wave has to

be launched at one position in the tube, propagate down the tube for an extended distance and remain strong and sensitive enough to be reflected back to the sender and interpreted. Dr. Rose decided on guided Lamb type waves, which consist of both longitudinal and transverse waves.

The most established non-destructive methods for inspecting steam generator tubing are eddy current and bulk wave ultrasonic meth-

ods. Both of these are "point-by-point" techniques. In the eddy current method, electrical currents are set up at a point in the tube and defects appear as a disruption in the electrical field. Existing ultrasonic devices direct a beam of ultrasonic waves at a point in the tube and look for changes in the reflected signal. In both cases, the coverage provided is about the size of the probe used, approximately a quarter-inch.

In the majority of inspection situations, the tubes are part of a larger operating unit and are not readily accessible," Dr. Rose said. "There are also often several thousand tubes in a single generator, making a point-by-point inspection process tedious, costly and time consuming."

The new Penn State device not only can inspect a minimum of 50 feet of pipe at a time but also can direct its signal around corners and bends. It has no need for complicated and expensive insertion/rotation devices since the probe need not be moved during inspection.

Participants in the pioneering work on the new probe included John Ditzl, Dr. Rose's former graduate student; the late Alexander Hlasko, who has been a visiting scientist from Poland; and Frank T. Carr, Florida Power and Light Co. The company provided early support for the project, as did the Electric Power Research Institute.

Several companies, including Krautkrammer Branson and Rosemount Aerospace, are considering commercialization of the probe system.

—Barbara Hale

Research

Roundup

Liquidity spurs stock splits

Stock return increases that follow stock split announcements can be attributed to improved liquidity rather than any signaling of inside information by managers, a study by Penn State and Southern Methodist University shows.

The study focuses on "solo-splits" of American Depository Receipts (ADRs) that are not associated with splits in the home country stock and show a statistically significant rise in returns at the announcement.

"Stock splits are cosmetic transactions which should neither create nor destroy value, but a great deal of evidence shows that stock returns do increase upon split announcements," Chris J. Muscarella, associate professor of finance with The Smeal College of Business Administration, said.

Dr. Muscarella and Michael R. Vetsuypens, associate professor of finance with Southern Methodist's Cox School of Business in Dallas, Texas, found that the solo-splits experienced marginally improved liquidity following the announcements.

"It all boils down to returning the stock price to a more suitable trading range," Dr. Vetsuypens said.

Korean biodiversity plan could guide other nations

The emerging giant economies of Asia are turning into environmental deserts, says the architect of a plan to save Korean biodiversity, who suggests that fast-growing nations use the plan's framework to save their dwindling natural resources.

"Development and pollution that wipe out plants and animals can cripple an ecosystem. K.C. Kim, head of the University's Center for Biodiversity Research, said, "This brings on public health problems and reduces the quality of life."

Although South Korea has 10 times the gross national product it did in 1950, its economic success has turned most of the nation into overcrowded urban and industrial land and endangered or eliminated many species.

Fast-growing Asian nations such as China, Malaysia and Indonesia face the same bleak conditions, Kim said. His work to save biodiversity led to a recently published book-sized plan now being followed by South Korea officials. The plan, called *Biodiversity 2000: A Strategy to Save, Study and Sustainably Use Korea's Biotic Resources*, calls for assessing biodiversity immediately and creating an infrastructure of biodiversity research and researchers.

Video scanner the electronic eye of the future

Bogart must have smoked in every of his movies. Or maybe not. Right now, short of renting the videos and looking at them all, there's no automated way to find out.

But that could soon change. A team of University engineers is developing a semiautomatic system that can scan a video to compile a database and then search the database to answer fan-page queries. The new Penn State system, being developed by Rangachar Kasturi, professor of computer science and engi-

neering, and his research team, is based on color content matching and is designed to work only with color videos. The system first segments the video into sub-sequences, or a continuous series of frames in which the scene stays pretty much the same. Next, the system identifies representative frames for each sub-sequence. Finally, it indexes the representative frames based on color features for the overall frame and specific individual objects present in the frame.

To retrieve a desired sequence, a

system user identifies a sample image and the system then searches the database for representative frames with matching color content. Eventually, the system, which is still under development, will have a user-friendly, point-and-click interface.

Potentially the system may be of value to law enforcement agencies looking for representative paintings or other art works, U.S. patent officers comparing invention drawings and intelligence agencies scanning newscasts for specific scenes.

Focus group facility offers many services

Penn State Harrisburg has established a focus group facility at its Eastgate Center in Harrisburg.

Featuring a conference room, state-of-the-art video and audio equipment and a viewing room, the Penn State Harrisburg Focus Group Center offers myriad services to corporate clients, government units, trade groups, academic researchers, marketers and other organizations both private and public.

The research facility offers problem identification and formulation of research questions, specification of research population, the development of a moderator's guide, assistance in conducting the focus group interview, analysis and interpretation of results and the production of a written report.

The Eastgate Center is located at 1010 N. Seventh St., just two blocks from the Capitol. For information call (717) 772-3590.

Career Exploration Day

Organizers of the annual Career Exploration Day are looking for departments and units at University Park to participate in this year's program that introduces ninth-grade students to various occupations.

Two Career Exploration Days, scheduled for Nov. 2 and 16, will be held for students from the Bald Eagle Area, Bellefonte, Penns Valley and State College Area school districts. The program, a collaborative effort of the four school districts, the Centre County Area Vocational Technical School and the Chamber of Business and Industry of Centre County, will begin at 9 a.m. as students are transported to the host work site by the schools. The students remain at the work site until 2 p.m.

For more information about the program or to sign up to host one or more students, contact Eric Loop, Continuing Education representative, 102 Wagner Building, University Park, Pa., (814) 863-0299; by fax at (814) 863-7042; or by E-mail at EWL1@cdc.psu.edu.

CARPOOLERS

Looking for a carpool from Tyrone area to University Park. Work hours are 7:30 a.m.-4:30 p.m. Monday through Friday. Call Tracy at 865-9031.

Sue would like to join carpool from Philipsburg to University Park. Work hours are 8 a.m.-5 p.m. Call 863-0539.

For the Record

In the Aug. 17 issue of *Intercom* the dates of two IBM computer courses were listed incorrectly. The correct dates and courses are:

- IBM Intro to Windows Nov. 8, 10 & a.m.-noon;
- IBM IBIS Financial Forms Nov. 21, 1-4 p.m.

Spanier pledges support, gets ready to begin statewide tour

President Graham Spanier was the keynote speaker Sept. 7 at the United Way campaign kickoff breakfast, (photo at right) where he pledged the support of the University community.

The county United Way goal this year is \$1.2 million, the highest amount ever set in Centre County.

Dr. Spanier, who is fulfilling his pledge to connect with the communities that Penn State serves, will begin a yearlong statewide tour Sept. 20. The first stop on the tour is Fayette Campus.

During the tour, the first of 10 scheduled for this fall, Dr. Spanier will meet with faculty, staff, students, alumni, the campus advisory board and the Central Fayette Chamber of Business/Industry. In addition, he will visit students, administrators and teachers at Laurel Highlands High School and will meet with representatives of five other local school districts. He also will meet with the Human Resources Council of Uniontown, the editorial board of the local newspaper, *The Herald Standard*, cooperative extension agents from the Fayette County office and donors.

This statewide initiative is aimed at developing stronger partnerships with communities across the Commonwealth and will encompass all 23 communities where Penn State is located.

Next stop on the tour is DuBois Campus on Sept. 29.



Photo: Greg Gneco

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INTERCOM

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A light moment

Gov. Tom Ridge and President Graham Spanier share a laugh before the start of the president's State of the University Address on Sept. 15. Gov. Ridge, who earlier in the day attended the Board of Trustees meeting, spoke briefly at the event. The text of Dr. Spanier's inaugural message to the University can be found inside on pages 9-12.

Photo: Greg Grieco

Trustees approve '96-'97 \$298 million request

A 1996-'97 state appropriations request of \$298.5 million, an increase of \$21.8 million over the total 1995-'96 appropriation of \$267.7 million, was approved by the Board of Trustees in its September meeting.

The University is requesting the increase to cover only its most critical operating needs and special needs, such as telecommunications program improvements amounting to \$4.5 million and a projected increase of \$1.2 million in Penn State's contribution to the State Employees' Retirement System (SERS).

In addition to requests for those two special line-item appropriations, the University's four-part budget plan includes requests for an increase of \$28.4 million (4.95 percent) for educational and general budget expenses; an increase of \$1.7 million (4.95 percent) for The Hershey Medical Center; an increase of \$1.7 million (4.95 percent) for the Pennsylvania College of Technology; and an increase of \$4.3 million (11.4 percent) for Agricultural Research and Extension operations.

While the University has received appropriations increases in recent years in the form of Tuition Challenge Grants, which allocate about \$144 per student to institutions agreeing to hold tuition increases to 4.5 percent for in-state students, its agricultural extension programs have not received an appropriation increase in the last four years and its agricultural research programs have not received an increase in the last six years.

"The state legislators and executive branch officials I have met since joining Penn State have expressed their

See "Budget request" on page 5

University officials testify before House Committee

Faculty research and travel make for better teachers, not weaker ones, President Graham Spanier testified Sept. 14 before a state House of Representatives select committee. But at the same time, he said, University faculty spend many hours in the classroom and Penn State is "pretty stingy" with its travel dollars.

"Penn State faculty come to an institution like ours because they value the mix of teaching and research," Dr. Spanier told the committee. "What I did as a researcher made me a better teacher, and

what I did as a teacher helped point my research in valuable directions."

Dr. Spanier, along with John A. Brighton, executive vice president and provost, appeared last week before the House Select Committee on Higher Education, which in late July began a series of hearings on various practices of colleges and universities. The committee's chairman, state Rep. John Lawless (R-Montgomery County), has called for increases in the number of hours faculty spend in the classroom, reductions in travel by university personnel and the

elimination or reduction of university tuition discount programs, among other things.

Dr. Spanier said that travel is a fundamental part of faculty activity, because faculty stay on the cutting edge of knowledge by traveling to and taking part in seminars and professional meetings. A typical faculty member doesn't travel that much — maybe to two meetings a year, he said.

He also said that Penn State has made extensive

See "Hearing" on page 2

Inside



Hershey gives hands-on help

Youngsters don lab coats and plunge right into science with the help of Hershey employees and students. See page 13.



Our origins

A Penn State professor of anthropology and biology helps unveil secrets of the earliest humans. See *Focus on Research* feature on page 19 for details.

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DIVERSITY

University awarded \$895,100 McNair grant

Penn State has received an \$895,100, four-year grant to conduct a Ronald E. McNair Post-Baccalaureate Achievement Program. The program is designed to prepare 30 low-income, first-generation undergraduates, and students from other groups underrepresented in graduate education, for doctoral study.

Twenty-five Penn State undergraduate students and five from Virginia State University, a historically black institution, will participate in the program each year. Since 1994, the two universities have collaborated on this project to effectively deal with recruiting, retaining and providing superior undergraduate education and preparation for students from the under-represented groups who want to earn doctorates.

"The success of any initiative to increase college faculty and researchers with doctorates—such as the McNair Program, depends on its capacity to reach those groups representing an increasing percentage of the nation's future work force—underrepresented minorities and low-income, first-generation college students," Howard E. Wray III, program director and associate dean for undergraduate education, said.

"Penn State has a history of success in preparing

"We give seminars on how to apply for financial aid and how to write the personal statement on the application. We visit graduate school campuses and we discuss what the transition to graduate school entails."

—Michael Radis
assistant director
McNair program

students for doctoral studies," John Cahir, vice provost and dean of Undergraduate Education, said. "We're especially pleased to be able to extend that success through the prestigious and effective McNair Achievement Program."

Statistics show how much this effort is needed: In 1993, 12 percent of the United States population was African American, but that group received only 4.4 percent of the total number of doctorates granted. Hispanics, who made up 8.9 percent of the population, were awarded only 3.3 percent of the doctorates.

The McNair program tries to prepare each stu-

dent for more than just the academic aspects of graduate school. "We give seminars on how to apply for financial aid and how to write the personal statement on the application. We visit graduate school campuses and we discuss what the transition to graduate school entails," Michael Radis, assistant director of the McNair program, said.

Each student works with a faculty adviser on a major research project. One student worked with an adviser at the Center for Locomotion Studies on ankle disorders in diabetics. "We also look out for the student outside of the classroom. Each student has a mentor, not in their field, who deals with them on a more social level, taking them to movies, plays and other social outlets," Mr. Radis said.

"Because low-income and minority groups are a growing part of today's population, they will increasingly be responsible for maintaining the social and economic systems of this country. Preparing them for this mission is just one part of the McNair Program," said Dean Wray.

Out of the first 11 students to graduate from the program at Penn State, eight have gone directly into graduate school, Mr. Radis said. "The others plan to enter in the near future."

Hearing

continued from page 1

efforts to cut costs and to increase efficiency. "But we can't continue to do that indefinitely," he said. "There's only so much efficiency you can get to."

When the committee chairman said he had received a letter from a former Penn State faculty member, outlining abuses in the system, Dr. Spanier quickly asked that the committee share the letter with him or urge the writer to contact his office (Spanier's directly. "He or she should send the letter to me," Dr. Spanier said. "What concerns me is that while there are hundreds of Penn State faculty who take their jobs very seriously, there may be a couple of bad apples. It's in our best interest to root out any abuses that may exist."

Dr. Brighton, in his testimony, said Penn State faculty typically teach two courses a semester and work an average of more than 52 hours per week.

"Teaching is not only the eight or nine hours faculty spend in the classroom, but closer to 20 hours a week when you combine everything that comprises teaching," Dr. Brighton said. "Faculty are also involved in research and public service."

During their testimony, Drs. Spanier and Brighton also pointed out that:

- The state contributes only about 15 percent of the University's annual travel budget—roughly \$4 million out of \$26 million. Also, the \$4 million state contribution amounts to less than 0.3 percent of Penn State's total budget.

- More than \$300 million in research and education funding from federal and corporate sources comes to Penn State every year—and travel is essential to seeking and securing these funds.

- In some colleges, highly competitive faculty members bring to Pennsylvania an aver-

age of \$150,000 to \$300,000 in research funding a year through competitive grants. These funds create additional jobs, enhance economic development, and promote the advancement of science.

- Travel is key to running Penn State, which has 23 locations across the state and agricultural extension offices in each of the state's 67 counties.

- Penn State has had to make significant adjustments because of the state's declining support. For instance, Penn State has made internal budget cuts and reallocations of \$87 million over the past four years—including the \$31 million in budget reductions taken over the three-year period of the Future Pauses. In addition, it has eliminated 16 academic programs, not filled positions that have come open and has cut back on services.

Dr. Brighton concluded his testimony with the following question: "Why is Penn State—so highly valued by federal agencies, alumni and the private sector—we ranked No. 2 in the country for funding for research from the private sector—and apparently so little valued by the Commonwealth itself?"

Penn State has done well in building its national reputation, serving its students' needs and generating funding from sources other than the Commonwealth, Dr. Brighton said. "But I would appeal to you, the members of the legislature, to help us better provide the quality education and services that our citizens deserve."

Others testifying before the committee included representatives of the University of Pittsburgh, Temple University, the State System of Higher Education and the American Association of University Professors.

The select committee plans to hold a roundtable discussion of higher education practices, open to the public, to bring the series of hearings to a conclusion.

—Alan Janesch

Promotions

Staff

Traci K. Shimmel, staff assistant VI in College of Agricultural Sciences.

Jodi R. Smith, accountant aide in Eberly College of Science.

Monica C. Spence, staff assistant VI in Intercollegiate Athletics.

Paula J. Thompson, clinical head nurse in The Hershey Medical Center.

Shelley L. Thompson, staff assistant V in Housing and Food Services.

Susan A. Trauger, clinical head nurse at The Hershey Medical Center.

Kimberly A. Veruete, staff assistant VII in Corporate Controller's Office.

Scott A. Weaver, coordinator, Support Center, in College of Education.

Eileen A. Zuber, administrative assistant III in College of Agricultural Sciences.

Technical Service

John D. Albany, maintenance worker (General) A at Penn State Delaware County Campus.

Paul W. Bright, toolmaker in Applied Research Lab.

Ronald L. Carlson, maintenance worker B in Office of Physical Plant.

Robert E. Haynes, maintenance worker, Utility, at Penn State York Campus.

Ralph T. Homan, maintenance worker, Area Landscape, in Office of Physical Plant.

Jeffrey A. Knaub, maintenance worker, Utility, at Penn State York Campus.

Richard F. Shawley, area facilities maintenance worker in Office of Physical Plant.

Robert M. Spergaw, janitorial storeroom attendant at The Hershey Medical Center.

Kathleen A. Wentzel, mail clerk in Business Services.

Victoria M. Weston, bakery assistant in Housing and Food Services.

Jerry A. Witherite, groundskeeper, Landscape A, in Office of Physical Plant.

From the Trustees Docket

Trustees OK capital budget request of \$104 million

The Board of Trustees approved a 1996-97 capital budget request to the Commonwealth totaling \$104.55 million for one year. Of this amount, \$43.95 million is for new construction projects, \$55.37 million is for renovation projects and \$5.23 million is for original equipment for projects that have been previously authorized by the state Legislature.

This year's request has been reduced from the usual \$200 million to \$300 million per year for five years to \$100 million for the coming year to be more in line with the current fiscal climate. Last year's request was \$265 million. Currently the University has 47 projects that have been authorized by the state but are awaiting funding.

"This request reflects changes in the priorities and emphases of academic and administrative units as identified in their strategic plan updates since last year," President Graham Spanier, said.

"Our rationale for choosing new construction projects gives high priority to instructional facilities that support teaching and research; specialized technology classrooms and labs; biological and life sciences, because of anticipated growth; modernization of existing science facilities and College of Engineering consolidation."

The top-priority project in new construction is the Classroom Building at University Park. This is the second phase of a state-funded project to provide classrooms, lecture halls and seminar rooms. The structure's exterior will be compatible with the first phase of the General Classroom Building, now in design, the recently completed Classroom Building, built with University funds, and adjacent buildings.

New construction projects in order of priority are:

- Classroom Building, Phase II, University Park, \$12.1 million



Pennsylvania Gov. Tom Ridge, an ex-officio member of the Board of Trustees, talks with H. Jesse Amelle, vice president of the board and a member since 1969. Gov. Ridge attended the September meeting of the board held at University Park.

Photo: Greg Grieb

- Library addition, auditorium, classroom building, York Campus, \$11.9 million
- Academic Activities Building, Penn State Harrisburg, \$3.75 million
- Library Depository Facility, University Park, \$11 million

- Addition to building and parking structures, Penn State Great Valley, \$5.2 million

The five renovation projects are all at University Park. They will include a general upgrade of the heating, cooling and lighting systems of old buildings and laboratories to incorporate current energy-efficient technologies. The top priority for renovations is Willard Building, which was constructed in 1949 with a major addition in 1964. It is the most

heavily used classroom building on campus, but it does not support modern instruction.

Renovation projects in order of priority:

- Willard Building, \$10.3 million
- Engineering Units and Sackett Building, \$8.6 million
- Chandler Laboratory, \$10.2 million
- Whitmore and Davey Labs, \$10.2 million
- Moore and Sparks Buildings, \$16.07 million

In addition, the capital budget request includes equipment for nine projects that were authorized in previous legislation. They include:

- Biomedical Technology Center, Fayette Campus, \$660,000
- Renovation of animal diagnostic lab and incinerator, University Park, \$240,000

- Acquisition of land and development of an Ag Instruction Center, Berks Campus, \$850,000

- Multipurpose Tech-Cultural Southwest Institute, Fayette Campus, \$620,000

- Agricultural sciences classroom lab and building, Fayette Campus, \$460,000

- Addition to Academic Building, New Kensington Campus, \$260,000

- Electrical Distribution system, University Park, \$390,000

- Technology Center, Wilkes-Barre Campus, \$200,000

- Multipurpose facility for student activities, Penn State Behrend, \$1.55 million.

Mont Alto bookstore design, Noll Lab receive board nod

The Board of Trustees approved sketch/preliminary plans for construction of a campus bookstore and the appointment of an architect for an addition to a University Park laboratory.

The Bookstore Building at the Penn State Mont Alto Campus, designed by Knoelker and Hull Associates Inc., Chambersburg, Pa., will be reminiscent of Civilian Conservation Corps buildings of the 1930s. In style, it will resemble a mountain lodge with porches for student use and a "double-high" ceiling with exposed wooden beams. The existing Double Cottage will be removed to allow for construction of the 8,458-square-foot, two-story structure.

The Bookstore Building will be set into a hillside, allowing ground-level entrance to both the bookstore on the upper level and continuing education classrooms and offices on the lower level. The upper floor will also include student mailboxes and an automatic teller machine.

The project budget for the Bookstore Building is \$1,324,000.

At University Park, the firm Burt, Hill, Kosar, Rittelmann Associates of Butler, Pa., was appointed architect for a \$2.3 million addition of Clinical Research Center facilities to the Noll Physiological Research Laboratory. An additional



Artist's rendering of the Bookstore Building at Mont Alto Campus, designed by Knoelker and Hull Associates Inc., Chambersburg.

8,000 to 10,000 square feet of space is needed for the lab to meet the requirements of a National Institutes of Health research grant for a joint project of the College of Health and Human Development and The Hershey Medical Center.

From the Trustees Docket

Board approves sale of former presidential home

The sale of the former presidential residence for \$750,000 was approved by the Board of Trustees.

Samuel J. and Mauvette R. Malizia of McLean, Va., will become the new owners of the house at 639 Kennard Road, Harris Township, which was occupied by Penn State presidents and their families for the past 25 years. Proceeds from the sale of the house and 5.65 acres will be used to endow the University's recently established Institute for Innovation in Learning, a program for the improvement of undergraduate education.

Mr. Malizia is a 1976 graduate of Penn State and a partner in the firm of Malizia, Spidi, Sloane & Fisch, P.C.

An analysis by the University showed that the estimated operating costs of a renovated facility at the former presidential residence would be higher than at Schreyer House, an on-campus property now under renovation. The property approved for sale is four miles south of campus.

University's endowment nearly doubles in five years

The total market value of Penn State's pooled endowment fund nearly doubled over the past five years, from \$168.8 million in 1990 to \$327.0 million as of June 30, 1995. Over the past five years, the fund has provided approximately \$54 million in academic program support. The total investment return over the five-year period averaged 10.1 percent per year.

A report presented at the September meeting of the University's Board of Trustees credits the growth to new gifts and reinvested earnings.

The overall return last year lagged behind the average of the TUCS Endowment Universe, a group of funds with which the University compares the performance of its endowment. The report states that last year's performance resulted from a defensive approach relative to the U.S. equity market. The University's investment committee adopted this approach in response to the perceived over-valuation of the market.

Trinity Investment Management, one of Penn State's individual equity managers, had a return of 28.5 percent for the year, placing it in the top 10 percent of equity endowment managers.

Penn State's fixed income investments outperformed the Lehman Brothers Intermediate Bond Index in the past year, and in the past three- and five-year periods.

The University's endowment fund is a pooled investment of gifts. The University holds endowed gifts in perpetuity, investing them and spending only a portion of the total return for each endowment's designated purpose. The remaining return is added to the principal to protect it from inflation. Endowments provide a source of income that Penn State can depend on to meet some of its most critical academic needs.

Successes, needs highlighted

The University has provided students and the faculty with significant access to telecommunications technologies in the past few years, but will require substantial new and ongoing resources for the 21st century, according to a progress report given Sept. 15 to Board of Trustees.

According to David Wormley, dean of the College of Engineering and chair of the task force on information infrastructure, and Gary Augustson, executive director of Computer and Information Systems, the need is still acute for information infrastructure and technical support staff at all University locations, despite large investments by the state and the University.

The main problem is one of scale, the report's authors said.

"Few comparable institutions in the world face the problems we do," Mr. Augustson said. "For instance, we provide E-mail service and Internet access for more than 50,000 students

"We provide E-mail service and Internet access for more than 50,000 students from all campuses, in addition to faculty and administrative users. No other educational institution in the world—and very few businesses—deal with such a large user population."

— Gary Augustson
executive director
Computer and Information Systems

from all campuses, in addition to faculty and administrative users. No other educational institution in the world—and very few businesses—deal with such a large user population. We handle nearly 1 million E-mail messages a day, just within the Penn State family. This is almost 10 percent of the national volume handled by commercial providers, such as Prodigy. The electronic catalog at University Libraries, LIAS, handles approximately 5 million transactions a month. Starting in October, LIAS plans to begin providing full text for 750,000 journal and newspaper articles, which is another step toward providing users with information as text, pictures and sound—the complete package," he said.

The report reiterated the need for the University to pursue funding for future expansion of the communications infrastructure.

"The need to support information and learning technologies is one of the University's highest priorities and is critical to fulfilling Penn State's mission in teaching, research and public service," Dean Wormley said. "With the effective use of communications and computational technologies, our students will be better prepared to work and live in the 21st Century and our faculty and staff will be more capable of making significant contributions to society."

The Commonwealth committed \$15.8 million in capital funds in 1994 to help cover the costs of the University Park wiring project. The design phase for this project began July 1. Ultimately, every office in every major building at University Park will have the wiring and electronics necessary to provide universal access to the world's information resources.

Part of these state funds also will be used to enhance interactive video capabilities at University Park, which will complement similar installations nearing completion at most of Penn State's other campuses. These improvements will enable the University to take better advantage of distance education opportunities and better collaborate with other institutions, with industry and with government. One specific example is the installation of interactive video facilities to link the Life Sciences departments at University Park and at The Milton S. Eshelby Medical Center.

This year's budget request to the Commonwealth includes \$4.5 million for an annual appropriation to support information technology.

"This funding is so important to the University that we will continue to discuss it with the legislature," President Graham Spanier, said. "This funding would support Penn State's growing needs and would provide the same information infrastructure at University locations, including campuses, county extension offices, continuing education centers and agricultural research centers."

The state and private funding we have so far received is crucial to building the infrastructure upon which the rest of our vision will take shape, Dean Wormley said.

"It is not a question of whether we should do this, but how we will do this," he said. "Teaching and learning, to an unprecedented degree, have become intertwined with these new technologies. Students and faculty require the ability to easily communicate with each other electronically and to explore the incredible richness of the world of information."

"We have made great progress in moving the University forward. However, we will need an ongoing commitment from the state to bring these efforts to fruition, and thereby be able to better serve the citizens of the Commonwealth."

From the Trustees Docket

University improving access for the disabled

The University has embarked on a series of prioritized projects to improve University services for both the disabled and the general public.

Gary Schultz, senior vice president for finance and business, gave an informational report Sept. 15 to the Board

existing facilities that will have the broadest impact on the greatest number of students."

Penn State has long been responsive on an individual basis as well as to the disabled population following 1973 legislation requiring programmatic access to students, faculty and staff with disabilities. The 1990 ADA requires institutions to ensure reasonable access to every program available.

All of the University facilities have been surveyed and examined in regards to its accessibility. If the program or service can not be relocated to an accessible facility, then a project is developed with solutions and cost estimates, he added.

There are two sources of funding for Penn State disability projects: state funding requested through the annual Capital Budget Request and capital improvement funds provided by the University, Mr. Schultz said.

A total of \$45.6 million for projects at University Park, The Hershey Medical Center and 18 campuses has been requested from the Commonwealth. All of these have been authorized, but the funding has not been yet released, Mr. Schultz said.

"In the meantime, limited University capital improvement funds have been used to solve the most pressing short-term problems," he said. "A total of \$1,415,600 has been expended for completed projects or for those in progress. In addition, a total of \$3.75 million has been committed to high-priority projects during the next five years.

Mr. Schultz said, "The University is working hard to meet our legislative mandates and to continue to serve our disabled population."

If a program or service cannot be relocated to an accessible facility, then a project is developed with solutions and cost estimates.

of Trustees on the status of University projects to meet the 1990 Americans with Disabilities Act.

Three University committees have been established to deal with various aspects of the federal legislation: the ADA Task Force, which focuses on training; the Office of Physical Plant Disability Access Steering Committee, which incorporates ADA regulations into design; and the University Access Committee, which has overall responsibility for gathering data, setting priorities and managing funding.

"The University Access Committee surveyed all major university facilities with faculty and staff participation and with trained student teams," Mr. Schultz said. "The resulting data were analyzed. The Committee selected and prioritized target projects, focusing on those modifications to

Budget request

continued from page 1

strong support for the University and a strong appreciation of its contributions to the Commonwealth," President Graham Spanier, said. "I hope they will recognize the critical needs we are trying to meet and support our request."

As it has in past years, the University is asking that the 1995-96 Tuition Challenge Grant funds, totaling an estimated \$7.5 million, be folded into the appropriate line items for 1996-97. The University's request for \$298.5 million in total appropriations consists of a base appropriation figure of \$291 million and the estimated Tuition Challenge Grant figure of \$7.5 million.

Currently, the state does not include the challenge grant funds in the University's appropriation bill and does not consider them part of its permanent funding base.

The 1996-97 appropriations request includes internal budget reductions of \$6.1 million. The University is now in the third and last year of the three-year Future Committee process, which over the period has made more than \$31 million in internal budget reductions and has used 75 percent of those funds for carefully chosen reinvestments in critical areas.

The administration is also developing plans for a new five-year bud-

get reduction and reallocation process, which will take effect in the 1997-98 budget year.

The special appropriation line item of \$4.5 million for telecommunications program needs has been part of Penn State's appropriation request for the last two years. If approved, the funds will be used to provide urgently needed increases in telecommunications staff, support cabling needs University-wide, and improve and expand the University's use of interactive video technology.

These funds are considered necessary to complement the \$15.8 million capital project to expand and improve the University's telecommunications infrastructure, which was approved by the Legislature last year as part of the Commonwealth's 1994-95 capital appropriation bill.

Among the projected operating expense changes are:

- \$8.3 million for program needs and prior commitments. Because of Penn State's serious underfunding situation, coupled with five consecutive years of internal budget reductions, the need for additional program funds has become critical. The \$8.3 million will be used to hire additional faculty to help alleviate large class sizes, maintain and enhance library

resources, pick up deferred maintenance projects, and meet state and federal mandates.

- \$1.3 million for increases in fuel and utilities costs and for maintenance and operation of new or newly remodeled facilities.

- \$3.9 million for projected increases in employee benefit costs. This excludes the projected increase for SERS, but includes modest increases in the costs of Social Security and retirement as well as provisions for health care cost increases of 6 percent. The University has been able to hold health care cost increases below the national average through its partnership with HealthAmerica and an aggressive program emphasizing managed care.

On the revenue side, the planned tuition rate increase of 4.5 percent — or \$117 per semester for resident undergraduate students at the University Park campus — will generate \$13.7 million in new income. Also, the University is projecting that a new student activities fee of \$25 per semester will generate more than \$3 million in 1996-97. Income from 1995-96 Summer Session tuition rate changes will bring in \$1 million.

Pittsburgh leader honored with emeritus status

In recognition of 14 years of outstanding service to Penn State, Cecile M. Springer of Pittsburgh was named trustee emerita. She is the first African-American woman to receive this honor from the Board.

Appointed to the Penn State Board of Directors by then Gov. Richard Thornburgh in 1981, Ms. Springer served through 1986 when she was reappointed, and continued to serve through May, 1995.

During her tenure as trustee, she was the chairperson or member of several board committees, including the Committee on Educational Policy (chairwoman, 1991-1993), Trustee Presidential Selection Committee, Committee on Finance, Special Advisory Committee on Affirmative Action (chairwoman, 1988-1990) and the Special Advisory Committee on Diversity. She was also a member of the board of directors of the Renaissance Fund and a member of the Distinguished Alumni Award-nominating Committee.

Ms. Springer is a graduate of Hunter College High School in New York City, has a bachelor of arts degree in chemistry from Manhattanville College in Purchase, N.Y., and received a master of arts degree from Wellesley College. She also has a master's degree in urban and regional planning from the University of Pittsburgh.

The recipient of many community and professional awards and honors, she was named Public Citizen of the Year in 1983 by the Southwest Pennsylvania Division of the National Association of Social Workers, and was selected by the governor to be a Distinguished Daughter of Pennsylvania in 1989.

Ms. Springer is president of Springer Associates, a new organization providing comprehensive, cost-effective consulting services in corporate and philanthropic programs and institutional development. She was formerly director, Contributions and Community Affairs of Westinghouse Electric Corp. from 1978-1989. She also served as president of the Westinghouse Foundation and was responsible for contributions made by the corporation worldwide.

The ARTS

AT PENN STATE

Bach's Lunch

Saxophobia, a saxophone quartet from the College of Arts and Architecture School of Music, will perform for the Bach's Lunch concert series at 12:10 p.m. today in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The Penn State Bassoon Ensemble will perform at the Bach's Lunch concert series at 12:10 p.m. Thursday, Sept. 28. The 20-minute concert is part of the Bach's Lunch series at 12:10 p.m. today in the Helen Eakin Eisenhower Chapel on the University Park Campus.

Saxophobia consists of four saxophone majors in the School of Music. The program will feature the music of the Beatles and an arrangement of Grieg's "Peer Gynt Suite" by Jim Noyes, instructor in music.

The Penn State Bassoon Ensemble consists of four undergraduate bassoon students in the School of Music and their teacher, Daryl Durran, associate professor of music. The program will include "Concerto in F minor" by Michel Corrette and "Three Pieces for Bassoon Quintet" by Peter Janzen.

The audience may take a brown bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided. The concert is open to the public.

Fauré's music celebration

The Institute for the Arts and Humanistic Studies is sponsoring a weeklong celebration of Gabriel Fauré's music for the 150th anniversary of his birth. The first of three concerts devoted to his piano, vocal and chamber ensemble works will start at 8 p.m. Friday, Sept. 22, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The first concert will feature Carl Blake on piano, Susan Boardman, soprano, and Marshall Urban, baritone. All participants in the weeklong musical offerings are faculty members of the School of Music. A reception will be held following the concert.

The second concert will feature Cecilia Dunoyer, piano, Suzanne Roy, soprano, and the Duo Concertant, James Lyon and Timothy Shafer, at 8 p.m. Sunday, Sept. 24, in the School of Music Recital Hall.

On Wednesday, Sept. 27 at 8 p.m. in the School of Music Recital Hall, Marylene Dosse, pianist, Richard Kennedy, tenor, and Norman Spivey, baritone, will perform piano and vocal works. The Castella Trio with Donald Hopkins, viola, will conclude the concert.

Special events for the week include a lecture by Taylor Greer, "Fauré's Verlainian Songs: A New Art of Nuance," scheduled for 4 p.m. Saturday, Sept. 23, in the School of Music Recital Hall.

The week will culminate with a Gala Concert in Eisenhower Auditorium at 8 p.m. Friday, Sept. 29 with the Penn State Philharmonic Orchestra. Director Pu-Qi Jiang will conduct the Suite from Pelléas et Mélisande, the Fantasy for flute and orchestra, with Eleanor Armstrong as soloist. He will also conduct the Elegy for cello and orchestra with cellist Kim Cook. For the second half of the program the Penn State Concert Choir, conducted by Douglas Miller, will join for a performance.

For more information, contact Marylene Dosse, professor of music and director of the Fauré Festival, at (814) 863-4405 or (814) 237-7555.

"Tamer of Horses"

The University Resident Theatre Company of the College of Arts and Architecture Department of Theatre Arts opens its '95-'96 season with the production of "Tamer of Horses" at 8 p.m. Friday, Oct. 6, in the Pavilion Theatre on the University Park Campus. The play, written by William Mastroiome and directed by G. Valmont Thomas, is the story of Hector St. Vincent, a tough talking, street smart hoodlum who survives on human weakness.

"Tamer of Horses" will continue through Saturday, Oct. 14. All evening performances begin at 8 p.m. Student preview performances will be held at 8 p.m. Wednesday and Thursday, Oct. 4 and 5. A matinee will be presented at 2 p.m. Saturday, Oct. 14.

For ticket information, contact the Arts Ticket Center at (814) 863-0255.

Exhibits at Kern

The Kern Exhibition Area will feature jewelry by Shirley Greenlaw through Oct. 15, and the photography of Genevieve Durang through Oct. 24.

Ms. Greenlaw's jewelry is made of fine porcelain in color combinations ranging from solid to marbled.

Ms. Durang, born in Brussels, attended the Rhode Island School of Design in Providence where she received her BFA in photography. She also attended Ecole Normale in Champigny, Belgium, earning a B.A. in education.

Her photography has appeared in such publications as *The Boston Globe*, *Washington Post*, *Los Angeles Times* and *International Management*. A painter as



Los Zapateros and other paintings by Frank Diaz Escalante are on exhibit at the HUB Formal Gallery on the University Park Campus through Oct. 21.

well as a photographer, Ms. Durang's artistic activity includes solo photo exhibitions in France and at Bloomsburg University; collective photo exhibitions at The Rhode Island School of Design, Providence College and Plymouth Art Show; and collective painting exhibitions.

The Kern Exhibition Area is on the first floor of the Kern Building on the University Park Campus. Exhibition hours are 8 a.m. to 11 p.m. Monday through Friday; 10 a.m. to 11 p.m. Saturday, and noon to 11 p.m. Sunday.

HUB exhibit

The paintings of artist Frank Diaz Escalante are on exhibit at the HUB Formal Gallery on the University Park Campus through Oct. 21. His vibrantly colored oil paintings reflect a lifetime of experiences.

A native of Puerto Rico, Mr. Escalante grew up in Spanish Harlem, New York City. He apprenticed in a copper and silver smithy, later opening his own shop. He next began selling leather goods, and later moved to Maine where he worked in the art form called "inlaid leather art composition," framed compositions of different hues of cut leather pieced together. During this time, he also began painting in oils, realizing an inner wish to be a true artist.

His canvases depict underpaid migrant workers, city night life, family and other memories stored from his childhood. His work currently is on a five-year traveling exhibit, the World Peace Art Tour, through seven countries and 15 museums in Eastern Europe.

HUB Formal Gallery hours are Tuesday through Saturday, noon-8 p.m., and Sunday noon-4 p.m.

HUB's Browning Gallery

The HUB's Browning Gallery will feature oil paintings by Joanne Landis through Oct. 22.

Ms. Landis' canvasses possess an abstract impressionism that is full of round female forms in vivacious col-

ors. These same canvasses form stories rich from Ms. Landis' experiences and environment.

Ms. Landis has had many solo and group exhibitions in New York City, Harrisburg, Germany and Bellefonte.

The HUB's Browning Gallery is on the first floor of the HUB on the University Park Campus and is open during all open HUB hours.

Birdhouses on display

An exhibit by Vicki Sellers is on display in the Kern Exhibition Area through Oct. 24.

Ms. Sellers, a native of Bellefonte, designs and constructs wooden birdhouses. She has exhibited in craft shows in Bethany Beach, Md., The Bellefonte Arts Festival, Corlier, Colo. and Lewisburg, Pa.

Performing arts changes

Two performances have been added to the College of Arts and Architecture Center for the Performing Arts 1995-96 season schedule. They are:

■ A performance by the National Band of New Zealand, a concert brass band, at 8 p.m. Wednesday, Oct. 25, in Eisenhower Auditorium on the University Park Campus.

The National Band of New Zealand has won numerous international awards and has toured widely. Its wide-ranging repertoire includes pop, jazz, stage and screen tunes and classics.

■ A performance by pianist and chamber musician Barry Snyder, at 8 p.m. Friday, Nov. 3, in Schwab Auditorium on the University Park Campus.

Mr. Snyder has performed with the orchestras of Montreal, Atlanta, Houston, Baltimore and Detroit, and has toured extensively in Europe and Asia. He has been professor of piano at the University of Rochester's Eastman School of Music since 1970. He will be offering a master class to conference participants during his visit.

For ticket information contact the Arts Ticket Center at (814) 863-0255.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, September 21

Center for Adult Learner Services, noon-3:29 p.m., Boucke Bldg. "Strategies for Academic Success," focuses on classroom strategies, tutoring and employment opportunities.

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel.

Friday, September 22

Palmer Lecture, 1:30 p.m., Palmer Lipcon Auditorium. Glenn Willumson on "Twentieth-Century Photography Before World War II."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Hilary Frost-Kump on "Creative Expression in American Places: Field Notes from an Arts Administrator Sojourning in a Geography Department."

■ Hillel, 7 p.m., Hetzel Union Building Reading Room. Opening reception for exhibit "Israel: Archaeology from the Air," with a slide display on the subject of Jerusalem throughout history.

School of Music, 8 p.m., Recital Hall. Gabriel Fauré. A Sesquicentennial Celebration. A weeklong celebration. Also Sept. 24, 27.

Saturday, September 23

First day of Fall.

Parent's & Families Day.

Great Insect Fair, 10 a.m.-4 p.m., Agricultural Sciences Bldg. Taste insect delicacies and tour the Frost Entomological Museum.

Gallery Talk, 1:30 p.m., Christoffers Lobby, Palmer Museum. Cheryl Snay on "Looking at You: Portraits at the Palmer Museum."

Center for the Performing Arts, 8 p.m., Eisenhower Chapel. "Roadside Theater South of the Mountain." For tickets call 863-0255.

Sunday, September 24

■ Film, 2 p.m., Palmer Lipcon Auditorium. "Africa: Caravans of Gold."

Tuesday, September 26

The Center for Women Students, 7:30 p.m., HUB Assembly Room. Patricia Johnson on "Bearing Witness to Violence Against Women."

Thursday, September 28

The Center for Women Students, noon, 120 Boucke Bldg. Sabrina C. Chapman on "PSU History: Past, Present and Future."

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Bassoon Ensemble.

Friday, September 29

Palmer Lecture, 1:30 p.m., Palmer Lipcon Auditorium. Glenn Willumson on "Photography Since World War II."

■ Gallery Talk, 3 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "African Headrests."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Roger Downs on "Geopolitics: The Politics of Geography Education."

School of Music, 8 p.m., Eisenhower Auditorium. Penn State Philharmonic.

Saturday, September 30

82nd Annual Horticultural Show, Ag Arena. Through Oct. 1.

Office for Minority Faculty Development Workshop, 9 a.m., 114 Kern Bldg. Hector Flores on "Publishing." Call Mary Laone at 863-1663 by Sept. 26 to participate.

Sunday, October 1

■ Palmer Film, 2 p.m., Palmer Lipcon Auditorium. "Africa: The King and the City."



"An Artist," and other works by Joanne Landis, will be on display at the HUB Browsing Gallery on the University Park Campus through Oct. 22.

School of Music, 4 p.m., Recital Hall. Penn State Faculty Composers' Concert.

SEMINARS

Thursday, September 21

Center for Gravitational Physics and Geometry, 11:30 p.m., 339 Davey Lab. Riccardo Capovilla, speaker.

■ Australia's New Zealand Studies Center/Journalism Program, noon, 101 Carnegie Bldg. John Morgan on "The Australian Press Connection: Restraint and Licence in the Home of Murdoch."

Econometrics, 2:30 p.m., 412 Kern Bldg. Dean Croushore on "Expectations and the Effects of Monetary Policy."

Physics, 3:30 p.m., 101 Osmond Lab. Robert Schrieffer on "Condensed Matter Physics: Concepts and Opportunities."

Friday, September 22

Econometrics, 3:30 p.m., 112 Kern Bldg. Ron Gallant on "Estimating Stochastic Differential Equations Efficiently by Minimum Chi-Square."

Agronomy, 3:35 p.m., 101 ASI. Jerry Martin on "Pequa-Mill Creek Water Quality Project in Lancaster County."

Aerospace Engineering, 3:35 p.m., 215

Hammond Bldg. Mark E. Dreier on "Technologies At Work in the V-22 Osprey."

Monday, September 25

Center for Gravitational Physics and Geometry, 3:30 p.m., 115 Osmond Lab. Thomas Strobl on "Classical and Quantum Gravity in 1+1 Dimensions."

Tuesday, September 26

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. John Patton on "Pulmonary Delivery of Proteins and Peptides."

Biology, 4 p.m., 8 Mueller Lab. Robert Mitchell on "Role of Insulin During and After Exercise."

Geosciences, 4 p.m., 26 Hostler Bldg. Ray Najjar on "The Annual Cycle of Oxygen in the World's Ocean."

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Francisco José Rosales on "Inflammation-Induced Hypertension."

Wednesday, September 27

■ Gerontology Center, noon, 101 H&H East. Steve Foreman on "Mental Health Use Among Elderly Chinese."

Accounting Research, 3:30 p.m., 333 Beam

BAB. David Guenther on "Earnings Management, Tax Planning and Book-Tax Conformity."

History, 4 p.m., 102 Weaver Bldg. Henrika Kuklick on "Races and Places."

Friday, September 29

Agronomy, 3:35 p.m., 101 ASI. Egidio Nizyimana on "Characteristics of Soils with Variable Charge."

CONFERENCES

Thursday, September 21

"It's in the Cards" Contract Bridge Workshop, 28 attendees, Penn State Scanticon. Through Sept. 24.

Sunday, September 24

Sinclair 1995, 200 attendees, Penn State Scanticon. Through Sept. 27.

Monday, September 25

Environmental Problems and Remediation, 12 attendees, Penn State Scanticon. Through Sept. 27.

Wednesday, September 27

New Financial Instruments: Horizons for Risk, 60 attendees, Penn State Scanticon. Through Sept. 29.

Friday, September 29

PA Ceramics, 40 attendees, Penn State Scanticon. Through Sept. 30.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m.

"Performance Today," Mon.-Fri., 9-11 a.m.

"All Things Considered," Mon.-Fri., 5-7 p.m.; Sat.-Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m.

"Fresh Air with Terry Gross," Mon.-Fri., 4-5 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein," Tues., 7 p.m.

"Car Talk," Fri., 7 p.m. and Sun., 6 p.m.

"Living On Earth," Mon., 7 p.m.

"Jazz with Marion McParland," Mon., 8 p.m.

"Theatre & Shamrock," Sun., 4 p.m.

EXHIBITS

HUB Browsing Gallery:

Oil paintings by Joanne Landis, through Oct. 22. Paintings consist of abstract impressionism full of round female forms in vivacious colors.

HUB Formal Gallery:

Paintings by Frank Diaz Escalante, through Oct. 21. Paintings reflect lifetime experiences.

HUB Reading Room:

■ "Israel: Archaeology from the Air," 25 published aerial photographs of major Israeli sites, in honor of Jerusalem's 3,000-year anniversary, through Oct. 5.

Kern Exhibition Area:

Wooden birdhouses by Vicki Sellers, through Oct. 24.

Palmer Museum:

"Palms," non-objective paintings by West Coast painter John McDonough, through Oct. 1.

■ "Sleeping Beauties: African Headrests from the Jerome L. Joss Collection at UCLA," through Dec. 3.

"Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

Zoller Gallery:

"Terrestrial Bodies," through Nov. 9.

■ Reflects an international perspective

Events planned around exhibit of AIDS quilt

The upcoming NAMES Project AIDS Memorial Quilt exhibit on Sept. 22, 23 and 24, in the South Gym of Recreation Building on the University Park Campus, brings with it a series of special events and educational programs that are free to the public.

They are:

Educational Presentations

- Penn State Virginia Wolf English class, today. (students only)
- A "Quiltmobile" is available for presentations throughout the community in September. For information, phone Lynn Schlow, (814) 237-3162, or Evelyn Wald, (814) 234-7087.

Special Events

- **Condominium**, a series of vignettes about HIV/AIDS and safer-sex issues, performed by the University Park Ensemble. Friday, Sept. 22, noon, outside of the Palmer Museum of Art. Two other performances are scheduled for the College of Agricultural Sciences freshmen seminar on Nov. 8 and 9.

- Portions of the award-winning documentary "Confronting AIDS in Rural America" will be shown continuously in Kern Building on Sept. 22.

- "In Our Yard," a photography exhibit featuring people living with HIV/AIDS. Tuesday, Oct. 31, through Sunday, Dec. 10, in the HUB's Art Alley.



The NAMES Project AIDS Memorial Quilt last visited Recreation Building on the University Park Campus Oct. 1-3, 1993.

Photo: Dave Shelly

- Colloquy speaker series presents Olympic diving champion Greg Louganis. Friday, Oct. 6, 7 p.m., Eisenhower Auditorium.

1995 Exhibit Poster

This year's quilt exhibit poster was designed by Jennifer Grochowalski and Todd Pope, senior graphic design majors. In creating their design, the artists sought to "spark interest and awareness of the arrival of the quilt by creating a poster promoting the positive and humanistic aspects behind the project." Posters

are available for a donation of \$7 or more in State College at Svoboda's Bookers, Tinderbox Gifts, Tower of Glass or call (814) 865-5375.

The NAMES Project AIDS Memorial Quilt is a powerful tribute to the people who lived, who were loved and who died of AIDS.

Exhibit hours are: Friday, Sept. 22, and Saturday, Sept. 23, 10 a.m. to 8 p.m.; Sunday, Sept. 24, 11 a.m. to 5 p.m. Opening ceremonies will be held at 10 a.m. Friday; closing ceremonies will be held at 5 p.m. Sunday.



BOOK SHELF

A new book co-authored by N. K. Bose presents a comprehensive study of neural networks, including a unified analysis of existing literature, for upper level university studies and for use by professionals who wish to learn neural network fundamentals.

Neural Network Fundamentals with Graphs, Algorithms and Applications, by Dr. Bose and P. Liang, has been published by McGraw-Hill Inc. The book is part of the "Series in Electrical and Computer Engineering."

Dr. Bose is the HRB-Systems Professor of electrical engineering and director of Penn State's Spatial and Temporal Signal Processing Center. Dr. Liang is an associate professor of electrical engineering at the University of California, Riverside.

The book is unique in its use of graph theory for topological classification of various neural network structures. The authors present the fundamentals of neural network theory for diverse applications, guiding

the reader from neuroscience fundamentals, graph theory and algorithms, to a detailed analysis of perception and Ims theory-based neural networks, multilayer feed forward networks, computational learning theory, variable-structure neural networks, recurrent neural networks, self-organizing and competitive learning neural networks. The culminating chapter covers selected applications of neural networks.

The authors have adapted the MATLAB Neural Network Toolbox to solve neural network design problems and reinforce theoretical concepts. As a teaching and learning aid, they offer numerous examples and end-of-chapter problems to illustrate procedures and concepts.

Ganapati P. Patil, Distinguished Professor of mathematical statistics and director of the Center for Statistical Ecology and Environmental Statistics, and **C. R. Rao**, holder of the

Eberly Family Chair in statistics and director of the Center for Multivariate Analysis, are co-editors of a new volume titled *Environmental Statistics in the Series "Handbook of Statistics."*

The volume, the 12th in the series, discusses the current state of the art in diverse areas of environmental statistics, and provides examples, new perspectives and problems for future research, training, policy and regulation.

The book is designed for use by researchers, teachers, consultants and graduate students in statistics, statistical ecology and quantitative environmental statistics.

Roland Barksdale-Hall, head librarian at the Penn State Shenango Campus and director of the program "People in Search of Opportunity: The African-American Experience in Mercer County," recently published a book on the project.

People in Search of Opportunity: The African-American Experience in Mercer County, took a total of nine years to research and compile. It contains facts and real-life accounts of African Americans in Mercer County, as well as numerous photographs. The proceeds from the 55-page book will benefit an exhibit to be assembled this winter.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

New Course Offerings

There are many new continuous quality improvement courses being offered this semester. For example on Oct. 19, the first session in a three-part brown bag series on "Leading in a Quality Culture" will feature **Betty Roberts**, assistant vice president for Business Services. Other presenters in this series are **John Romano**, vice provost for enrollment management and administration, on Oct. 26; and **James Ryan**, vice president and dean for Continuing and Distance Education, on Nov. 2.

On Oct. 31, the course "CQI: What Difference Does It Make?" a panel will provide information about tangible gains in services that have been achieved as a result of CQI teams.

Panelists are **William Farnsworth**, assistant director, Division of Undergraduate Studies; **Patricia Irwin**, nurse manager, University Health Services; and **Steve Kreiser**, industrial engineer, Office of Human Resources. The panel will be moderated by **Louise Sandmeyer**, executive director of the CQI Center.

"Process Benchmarking: A Series of Case Studies," which will be scheduled at clients' convenience, will introduce two different case studies that emphasize the underlying concepts and potential applications of process benchmarking.

Many offices collect data but are not sure how to apply it. A series of courses will teach people how to use available information, determine what other kinds of data are needed and collect only what will actually be needed.

The first in this series is "Data Basics and Tools Overview," offered on Sept. 25 and Oct. 31. Other courses include: "Dynamic Brainstorming for Identifying Issues and Data," "Identifying Root Causes," "Measuring Improvements, I & II," "Process Definition and Mapping," and "What to Improve." These courses are taught by **Barbara Sherlock**, human resources/CQI specialist.

If you would like to register for any of the above courses, which are free to University faculty and staff, call the Human Resource Development Center at (814) 865-8216.

Governor Ridge, Chairman Schreyer, members of the Board of Trustees, faculty colleagues, alumni, students, and friends gathered throughout the Commonwealth, thank you for joining me in person or electronically for my inaugural state-of-the-university address. It will be my custom to communicate with you openly and often, and I am pleased to be able to begin this tradition so early in my tenure as President, especially in the presence of our governor and members of our governing board. Their support will be critical to our success in the years ahead, and I am grateful for their involvement here today. It is a deeply moving experience to be welcomed back to Penn State so warmly, and I thank you all most sincerely for the honor you have bestowed on me in appointing me to this position.

I consider the Penn State presidency to be the single most attractive leadership position in American higher education, even while some of you have gently suggested to me that it will surely be one of the most challenging. I am a person optimistic by nature, and what I see is the great opportunity to build upon the mission, the foundation, the traditions, and the success of 140 years of institutional accomplishment that have made Penn State one of the nation's leading universities.

A PERSONAL REFLECTION

There is much that I wish to say to you today, some of which I have shared before. Before I turn to my thoughts about the future of The Pennsylvania State University, permit me, please, a moment of personal reflection.

In 1936, with a few deutsche marks sewn into his collar secretly by his mother, but with no other possessions, a 15-year-old German boy named Fritz managed to escape the oppression of Nazi Germany, and found his way to South Africa.

Fritz was never to see most of his family again. Twenty of his close relatives died in the death camps. Fritz learned English, became a citizen of South Africa, fought for that country during the war, and in 1947 married a woman from Johannesburg. A

year and a half later, a son was born in Capetown. In that year, 1948, apartheid became the official policy of South Africa, and Fritz became disturbed by the parallels between what he left behind in Germany and what now surrounded him in South Africa. So in 1949, Fritz came to the United States by himself, settled in Chicago, saved a few dollars from his job loading and unloading trucks in a warehouse, and a few months later persuaded his wife to come to Chicago along with the infant child.

Fritz Otto Spanier, my father, known in America as Fred, died at 64, an unhappy man after years of ill health, never experiencing the prosperity that other immigrants found. For most of his adult life he was a working-class man with upper-middle-class aspirations. He valued learning, but never knew formal education. He allowed people to believe he had a college degree because he was too embarrassed to admit he did not.

Yet something almost inexplicable happened during this man's life that would have lasting impact on his family. Despite the fact that neither he nor anyone else in his family had ever set foot on a college campus, he and his wife managed to instill in their children a healthy respect for education. Their three children now have among them seven university degrees.

This story is not as unusual as it might seem. Since I am certain many of you, like me, are the first in your families to attend college. Many of our students, too, carry with them the hopes of the future for their entire family constellations.

I tell you all of this to communicate something about my values. The university experience means far more to me than turning students into alumni or turning ideas into publications. For me, education is society's mechanism for turning despair into hope, for raising the social consciousness of the community, for altering the course of families, for turning poverty into wealth, and for improving the quality of life. Only education

could allow a poor immigrant who grew up on the south side of Chicago to become the President of Penn State.

Other values are relevant as well. I hope that each and every decision made in my administration will be weighed against one criterion, namely, what is in the best interests of



this University, the people of the Commonwealth, and the broader community of constituents we serve through higher education. Leaders whom I admire govern with a vision, set principle

ahead of politics, put people first, and understand the value of compassion. They welcome the opportunity to explain their decisions, communicate with those they serve, and are willing to take a stand. They are risk-takers, but take only prudent risks. They are always prepared to cooperate but do not avoid intellectual or philosophical confrontations.

*My goal for this University
is to be the top institution
in the United States in the integration
of teaching, research and service*

And finally, as I reflect on the person I am today, and the influence my parents had in the formation of that person, I see education as one of the two overriding concepts that provide the foundation for my value system. The other is the value of social equality, an abhorrence of discrimination, and a desire for understanding across cultures. I was born to circumstances where freedom, social equality, and pluralism were considered corrupt concepts. I see them as virtues. This is why, under my watch, I am hopeful that the University will work toward greater tolerance and understanding of all peoples.

TRADITION AND CHANGE

Penn State in the modern era has been through a season of change, and I anticipate more of it. Frankly, I don't relish my epitaph reading "Graham B. Spanier: He Didn't Change a Thing." Yet at the same time, I confess that I am someone strongly attracted to

tradition. Soon after my appointment, I began the enriching experience of reading Penn State's history, finding that during my first nine years here, I had only scratched the surface in understanding our heritage.

If you see me in the local movie theatre, you'll notice that I am as sentimental as they come. I have always felt that the presidency requires a delicate walk between respect for the university's traditions and the courage to change some of them. Perhaps you've heard the expression "You can't be charged with an error if you don't touch the ball." In higher education today, too many leaders have become fearful of touching the ball. I can assure you I will be in the infield.

I have spent the last several months reading thousands of pages of material and talking with dozens of you to begin sorting out an agenda for the next season of change. Such change is inevitable here. Robert Kennedy said, "Progress is a nice word. But change is its motivator and change has enemies." Henry Ford said, "Don't find fault. Find a remedy." And Coach John Wooden said, "Do not let what you cannot do interfere with what you can."

Yet, I am reminded of the retired lawyer who once said "When I was young I lost some cases that I should have won, and when I was old I won some cases I should have lost. So, on the average, justice was done." A university presidency is a bit like that. You get some credit that in all fairness belongs to others, and you catch a whale of grief that belongs elsewhere. I believe firmly that our plans for the future cannot be—and should not be—one person's vision. I will, therefore, be asking for your help. Although I believe strongly in a model of vigorous leadership provided by the President, I also believe strongly in shared governance.

I remember a story about a man who suffered a severe financial setback. He became destitute, and in utter despair he turned to God. "Please, God," he prayed, "you've got to help me. Please let me win the lottery." And there was no answer. No response. The next day was no better. And he prayed again, "Please God, the only way I'll get back on my feet is if I win the lottery." This went on for

a few days. The man thought that God wasn't hearing him. With his final breath of hope, he turned to God one last time and said, "I beg of you, let me win the lottery." After a moment of silence a voice came back to him saying, "Give me a break. At least buy a ticket." There is no doubt whatsoever in my mind that there can be a mutually supportive approach to leading this University in the years ahead, I'm selling tickets to all of you.

Universities are built brick by brick, professor by professor, idea by idea, student by student, and graduate by graduate. Universities evolve slowly. Unlike many other institutions in our society where rapid expansion and compression are more common and more easily tolerated, in universities contraction, and even expansion, are often traumatic. Working together, we can continue to set in place new initiatives that will increase the quality of an already great institution, initiatives that will prepare our students and other constituents for their future as citizens, workers, and family members. Working together, we can help our faculty address the great scholarly challenges ahead in the advancement of their disciplines and their service to society.

PENN STATE'S MISSION

Let us turn now to Penn State's mission. I can't tell you how many times I have already been asked to choose sides: Do I favor teaching or research? Would I put teaching first, or research and creative activity, or service and outreach?

I don't intend to ever choose sides, and I'll explain why. This University was founded around all three missions, and our national stature is due largely to our ability to excel in all three domains. Of course, undergraduate instruction is the foundation of this and most other great universities, and we will continue to focus the plurality of our energies in that direction.

President Athenon, in his inaugural address in 1882, spoke eloquently about the University's role in the education of what then was

a class of men. As a result of a Penn State education, he said, a student:

"... should look upon himself not merely as a winner of bread, but as a moral force in the world, with noble powers which he must rightly employ, with high duties which he must fulfill, and with the possibilities of a grand destiny which he must labor to achieve. It is the business of a sound education to teach him the nature of these powers, these duties and that destiny, but having done that, it must leave the man to follow the voice of an enlightened conscience, within that inner sanctuary, no teacher, no external authority whatsoever may venture to intrude."

Still seeking these ends, but now for a more diverse student body, Penn State is indeed one of the nation's great undergraduate institutions. But it is so much more.

My goal for this University is to be the top institution in the United States in the integration of teaching, research, and service. We are currently one of the leading institutions in each of these three broad areas, viewed separately. It is not so much my goal that we be number one in any one of these three domains individually—although that is surely a worthy pursuit—but I do believe we can and should be identified as the leading model of how a land-grant university simultaneously provides excellence in undergraduate education, graduate education, research, scholarship, and creative activity; technology transfer and promotion of economic development; continuing and distance education; cooperative extension; public and professional service; the promotion of health and human development; and the cultural advancement of our society.

To achieve this end, of course, we must have exceptionally strong programs in each domain individually. But one of our greatest assets should be our faculty's ability to achieve the appropriate balance, individually and collectively, at the confluence of our missions. I am proud to say that we currently have such strength. My goal is to foster this balance in what some would describe as the world's most comprehensive institution

of higher education. This, to me, is a most worthy goal. So let us not choose to energize only one part of Penn State's anatomy; the entire body must be nourished.

Integrated with our teaching mission, Penn State research offers compelling opportunities not only for faculty and students, but for the public we serve. And the Penn State Research Park is an excellent example of the University's tradition of outreach through research.

PennState's national and international leadership in research is solidly established, with total research expenditures projected to exceed \$340 million for 1994-95, a record high. These standings reflect substantial growth in the last decade, ranking us among the leaders in the United States.

This momentum should serve us well in the much-altered federal funding environment that we anticipate. I am confident that Penn State faculty will continue to attract strong external support. I will enthusiastically promote this activity. I will also support continuation of graduate education initiatives, these efforts not only contribute to our research capacity, they fulfill an important component of our teaching responsibility as well.

Our outreach mission is exceedingly well expressed at Penn State. From the historic contributions of the Cooperative Extension Service, Continuing Education, and public broadcasting to the forward-looking possibilities that technology affords, Penn State

has never been shy about bringing programs and services to the public. We must be bolder still in making our resources broadly available to promote and support higher learning throughout society. Penn State's reach must include increasing numbers of Pennsylvania's nontraditional students who mix education and work. We must reach the marketplace through technology transfer. And we must embrace communities, their aspirations, and their problems.

The Commonwealth Educational System is a great asset to Pennsylvania for meeting such needs, and the importance of this statewide presence cannot be overestimated. Penn State Erie, Penn State Harrisburg, and the Pennsylvania College of Technology in Williamsport are also important components of our broad educational program.

Mine will be an open administration.

This University will progress more rapidly if we transcend the "we" and "they" thinking that sometimes occurs.

And The Milton S. Eisenhower Medical Center has become one of the leading models nationally of an exceptional academic health science center bringing together teaching, research, patient care, and community service. We are experiencing dramatic changes in the landscape of American health delivery, and we will see continued adaptation in our College of Medicine and University Hospitals. Fortunately, through outstanding leadership and vision in Hershey, we have stayed ahead of the curve in medical education, facilities planning, adaptation to an environment of increased managed care, community collaboration, and hospital management. I am tremendously proud of what has happened at the Medical Center.

Our University-wide educational outreach activities are an integral part of our mission. The more closely they are integrated with our resident instruction and research, the more effective they will be. The establishment of America's land-grant universities, with their tripartite mission of teaching, research, and service, is surely the single most important development in the history of higher education. The Morrill Land Grant Act, the Hatch Act, which established the Agricultural Experiment Stations, and the Smith-Lever Act, which established the Cooperative Extension Services, created a class of universities that is the envy of higher learning worldwide. Among these land-grant institutions, Penn State is by nearly every measure one of the best. It is my goal for us to be the best.



COMMUNICATION

A university of this size, scope, and complexity requires excellent communication. It will be a high priority of mine to communicate as frequently as possible with you through public appearances, Faculty Senate meetings, the *Intercom*, and other means. Mine will be an open administration. This University will progress more rapidly if we transcend the "we" and "they" thinking that sometimes occurs. If I ever must disagree with someone, I will have a good reason why and will tell you what that reason is. I will meet often with the leadership of the University Faculty Senate. I will offer a report at each senate meeting I am able to attend, and will always stand for questions.

I have established an electronic mail address that will allow any member of the University community to contact me directly. I believe very strongly in delegation of authority and responsibility, and have always done everything within my means to empower employees and administrators to handle matters at the departmental and college levels. So I hope you will deal with the appropriate departmental, college, or University official on administrative, personnel, or other business matters. But if you want to talk to me directly, by all means send me a message. I promise to respond so long as you don't collectively overwhelm me. gspanier@psu.edu is my address.

BUILDING PUBLIC CONFIDENCE AND SUPPORT

What, then, do I see as my most immediate challenges? Near the top of the list would be the need to enhance the confidence of the people of the state and our elected officials in Penn State. I intend to travel to communities across the state throughout this first year, not only to meet our extensive University family, but to greet community leaders, alumni, agricultural and industrial leaders, members of the media, prospective students and their parents, elected officials, and taxpayers.

I want our constituents to know Penn State's considerable contributions to Pennsylvania. I also want to hear what they think about us, what we can do to help them, and how we can serve them better. I want to look carefully at the messages the University communicates to the public and how those messages are being received. We want to be sure that we are communicating as effectively as we can.

The need for increased public support for Penn State has been a thorn in the side of this University for many years. Pennsylvania ranks near the bottom among the fifty states in appropriations to public institutions of higher education per full-time-equivalent student. The last time the Commonwealth ranked better than the bottom ten states was in 1982. I do not need to tell you the impact this situation has had on Penn State.

I will work hard to improve state appropriations, carrying a message of necessity and opportunity for the people of Pennsylvania to invest in their future by investing in Penn State. The return on these dollars in terms of economic development, the next generation of leadership, and the cultural life of the Commonwealth cannot be surpassed. Penn State has not yet approached the limits of its contributions on any of these fronts, but to do so will require a greater investment of public funds.

At the same time, we will want to take a top-to-bottom look at how well we are managing the funds we currently receive. I expect members of this administration to be good stewards of the precious funds that are entrusted to us. In seeking increased public and private support for Penn State, I will want to say with conviction that we are operating as efficiently and responsibly as possible. I expect to continue our strategic planning programs and efforts at Continuous Quality Improvement, and we will look for opportunities to further trim administrative overhead. I solicit your suggestions.

COMMONWEALTH CAMPUSES

One of my highest priorities this year will be to examine the mission and structure of



the Commonwealth Educational System. Dozens of you have written to me already with your thoughts. This marvelous system has contributed substantially to the unique success of Penn State during the past thirty years. Yet, the concepts on which the systems based need to be reviewed, and perhaps redefined, in light of several considerations: the state's current demographics; emerging educational needs; Penn State's relationships with community colleges, the state universities, and other colleges and universities in the region; financial support available from the legislature and through tuition; the role of information technology in distance education; and the growing need for continuing education and extended graduate and professional education.

It is possible that our assessment will be that only modest change is appropriate. On the other hand, we might discover that the mission of selected campuses should be altered; that some campuses should offer a different cadre of educational programs; that some structural changes are warranted in how certain Commonwealth Campuses relate to each other or to University Park Campus; that Penn State should forge new partnerships with other institutions, or that certain faculty roles and responsibilities should be redefined.

This is a time for orderly discussion and reflection. No dramatic changes are imminent. The only thing that is imminent is an open discussion, with Provost Brighton, Senior Vice President Dunham, and I will seek to structure so that informed judgments can be made about what is in the best interests of Pennsylvania. I know many of you await such conversation and review, and I pledge to bring Penn State's best analytical abilities to bear on this important discussion.

FUND-RAISING

Penn State, as with other public universities, has only two principal sources of revenue to support its instructional mission—legislative appropriations and tuition. Currently, only 17 percent of our total budget is derived from state appropriations. We are, of course, grateful for the state's contribution to our educational programs, without them we couldn't exist. But at the same time we have found increasingly that the margin of excellence necessary to operate competitively with our colleague institutions in the Big Ten, the prestigious Association of American Universities, and other top universities requires us to draw on the generosity of alumni and friends.

It is quite simply mandatory that in this complex society we educate our students so that they are capable not only of holding a job, but also of holding a rational conversation, of writing coherent letters and of debating simultaneously with insight, vigor and respect. We will continue to build on our heritage, changing and adapting the educational mission as needed to fit the times.

I am therefore committed to an ambitious program of fund raising during the course of my tenure at Penn State. We will continue our planning this year for a sustained capital campaign. In the meantime, we have launched a search for our next vice president for development and alumni relations. I will soon meet with our National Development Council, and I will be working closely with the deans and other senior administrators on an ambitious plan for private support for Penn State.

INFORMATION TECHNOLOGY

Information technology has become absolutely vital to today's most distinguished learning institutions. It is especially important to Penn State because of our complex needs for communication, the advanced nature of our research, the aspirations we have for the

preparation of our graduates, and the outreach mission and statewide network of our campuses. The report of the Study Group on Information Infrastructure provides a sound framework for addressing our needs. I plan to continue the implementation of the strategy recommended by the study group. Penn State must continue to be on the leading edge of this curve, this will be a high priority for me.

INTERNATIONALIZATION

Internationalization is another critical area we must emphasize. Institutions such as Penn State find that faculty leadership in instruction, research, and outreach extends well beyond national boundaries. Moreover, the future graduate of Penn State is increasingly likely to find employment in the international economic market. Whether our graduates are interested in agribusiness, architecture, environmental studies, journalism, or art, they will find themselves drawn over time into an international milieu. I will promote advancement in the arenas of study abroad, faculty exchanges and student exchanges, and the many areas of international cooperation that can open wider the doors of the international marketplace to Pennsylvania industry.

RECRUITMENT OF OUTSTANDING STUDENTS

Last year Penn State processed more than 45,000 applications for admission. We are consistently one of the top three American universities receiving applications from prospective students. We are doing something right, and the public appreciates what we are doing. But we can do more.

For example, we have been especially successful in the past few years attracting applications from the most academically gifted students. Yet financial considerations have permitted us to admit only a portion of the brightest students into our University Scholars Program. It will be a priority of mine to increase substantially our ability to accommodate the needs and talents of these gifted students. We have already begun discussions

about an expansion of the University Scholars Program, and will consider possibilities such as an honors college.

THE MULTIDISCIPLINARY NATURE OF SOCIETY

The world is inherently multidisciplinary, yet academic institutions continue to be organized principally around individual disciplines. One of the greatest challenges facing higher education in the decade ahead will be how we organize ourselves around the growing interdisciplinarity of knowledge.

The outcome of our work is a great deal more than teaching job skills, although that is certainly part of it.

It entails something deeper. If we are doing our jobs, then it entails opening our students' minds and hearts, fostering in them a greater understanding of our cultures and enticing them to examine, to evaluate, and to adopt a world view that is more tolerant, more caring, and more compassionate.

Many of the greatest advances in science, engineering, and medicine are occurring not within the mainstream of our disciplines, but at the boundaries of our disciplines. This is true not only where medicine meets mechanical engineering, where chemistry meets physics, or where genetics meets horticulture, but also where theatre arts meets music, where psychology meets sociology, or where history meets philosophy. It will be important for Penn State to consider how we can preserve the great strength and foundation provided by our disciplines while at the same time encouraging our faculty to cross disciplinary boundaries when needed. One timely example of such a challenge is the recent discussion of the life sciences at Penn State and a Division of Biological Sciences. Such opportunities for multidisciplinary cooperation must be pursued.



I got a sense of this tremendous challenge last month, welcoming thousands of new students to the University Park Campus. It is a rather humbling experience to encounter the collective potential represented by just one incoming class. Their enthusiasm is

THE UNIVERSITY CLIMATE

I wish to say a word about the University climate. Among my top priorities is "humanizing the University." Everyone at Penn State has a role to play in creating an open, sensitive, understanding, and responsive campus environment. To me, people come first.

The single most important key to opening the doors wider to all people is to create an environment in which everyone feels welcome. We must eliminate intolerance and harassment within what should be an enlightened community of faculty, staff, and students. I urge all members of the University community to intensify efforts to promote greater understanding and to work toward the goal of civility and acceptance of increased cultural diversity and sensitivity.

A FRAMEWORK FOR THE FUTURE

As we prepare for the next era at The Pennsylvania State University, I ask you to join me in positioning this University to approach these many challenges with renewed determination. This must be an institution that cares about the cultural, intellectual and personal well-being of its students, faculty, staff and external constituencies, the relevance and quality of its programs, and its responsibilities as a leader in higher education. Attaining this level of quality and achievement will help to attract and retain excellent faculty, recruit the brightest students and bring prospering industries to the state. Never has the task been greater for institutions of higher learning to prepare future generations for technological, economic and social change. We, the faculty and staff of Penn State, carry that responsibility squarely on our shoulders.

I got a sense of this tremendous challenge last month, welcoming thousands of new students to the University Park Campus. It is a rather humbling experience to encounter the collective potential represented by just one incoming class. Their enthusiasm is

infectious and it becomes suddenly clear why we all have chosen to make our careers in academe. We are actively engaged in preparing these students for tomorrow's world. How successful we are in that task is directly related to the success they will have.

The outcome of our work is a great deal more than teaching job skills, although that is certainly part of it. It entails something deeper. If we are doing our jobs, then it entails opening our students' minds and hearts, fostering in them a greater understanding of our cultures and enticing them to examine, to evaluate, and to adopt a world view that is more tolerant, more caring, and more compassionate.

It is quite simply mandatory that in this complex society we educate our students so that they are capable not only of holding a job, but also capable of holding a rational conversation, of writing coherent letters, and of debating simultaneously with insight, vigor and respect.

In helping to chart Penn State's course, I am ever mindful of the tremendous legacy left by my predecessors. All that I will be able to accomplish here will, without question, build on the past. We will continue to build on our magnificent heritage, changing and adapting the educational mission as needed to fit the times.

You have all been so gracious in welcoming my family and me back to Pennsylvania. I developed a deep affection for Penn State during my earlier tenure and I know that it will only grow. Most important then, as now, are the people here. I hope before long to meet each and every one of you. Help me out by introducing yourself to my family and me at the reception that follows. And if we don't connect then, grab me at a sports event, on the sidewalk, or in the grocery store. Thank you again for your warm welcome.

Children get hands-on medical lab experience



Eight-, nine-, and 10-year-olds don goggles, miniature white lab coats and rubber gloves as they prepare to examine DNA, the building blocks of life. Twenty miles away, another group of youngsters prepares to dissect a pig's heart.

No, these are not scenes from futuristic medical laboratories on a planet ruled by children. They are real, hands-on experiments local elementary school children have been able to conduct in science centers set up by the College of Medicine at The Hershey Medical Center.

The program was one result of a \$250,000, five-year grant from the Howard Hughes Medical Institute's Pre-College Science Education Initiative for Biomedical Research. The Medical Center was one of 42 nationwide recipients. The effort here has been led by Keith Verner, associate professor of cellular and molecular physiology and director of public science and health education programs.

"If we get students interested in science at an early age, they will realize that science and technology are associated with many areas of their lives," Dr. Verner said.

Additional benefits of the program, according to Dr. Verner, are that the project gives physicians, scientists and others the opportunity to work with children at a young age—before gender issues or other factors discourage children from science studies.

"We're trying to take the stereotypical male role out of the sciences and show that boys and girls can be challenged by science and enjoy studying it," he said.

Plus, by learning about health issues through hands-on activities like viewing a smoke-damaged lung, for instance, children will hopefully learn to make wise health choices.

But from the youngsters' points of view, it's just fun to roll up their sleeves and learn by doing.

"When we dissected the pig's heart, we saw the four chambers of the heart. It was fun and kind of gross!" said Kosta Kouvelis, a sixth-grader at D. A. Marshall Elementary School in Harrisburg, home of the newest science center. But he added, "It's better to learn this way, better than reading it in a book. We got to really see everything."

Richard Walk, another sixth-grader at Marshall, echoes his classmate's sentiment.

"Seeing all those tubes connected to the heart was really cool," Richard said.

Children in three different school districts have the opportunity to learn science first-hand. In addition to the science center at Marshall, science centers have been established in the Lower Dauphin School District and the Derry Township School District. More than 6,000 elementary school-age children from kindergarten through sixth grade have access to these science centers.

The Howard Hughes grant paid for all the laboratory materials—from lab tables to stools, to test tubes and rubber gloves, beakers, flasks, charts and stethoscopes. Each science center also features a



Jeanette Beers, a graduate student in cellular and molecular physiology at Hershey, works with students at D.A. Marshall Elementary School in Harrisburg to identify organs in a model of the human body.



A student at D.A. Marshall Elementary School in Harrisburg examines a skull.

model skeleton and human torso with removable organs.

In addition to the DNA and heart presentations, medical center faculty and students have worked with the children as they learned about the brain, eye, lasers, plastic surgery, radiologic imaging, the respiratory system, sports medicine, combustion and nutrition.

"The Hershey Medical Center has been working since 1993 to develop a plan to use the professional scientific expertise available here for the benefit of school districts and to foster and support the educational activities of school children in the community," Dr. C. McCollister Everts, senior vice president for health affairs and dean of the College of Medicine, said. "The effort has been extremely successful."

"These projects represent a major opportunity for The Hershey Medical Center to extend its com-

mitment to education in the community in a collaborative and beneficial manner."

The medical center has lined up volunteers from both clinical and basic science departments to provide one-day visits in the science centers to make presentations, assist teachers and conduct experiments.

In fact, Dr. Verner said, "there has been a tremendous response from Hershey Medical Center staff members. More than 300 physicians, medical students and graduate students have responded to the request for volunteers."

But the medical center's role is just one piece of the whole effort that brought this project to fruition. This collaborative effort joined medical center staff members, elementary science teachers, school district administrators and community representatives to develop material that would fit into the students' science curriculum.

The Howard Hughes funds will also be used for in-service training of teachers to use the science center. Plus, it pays older students to stay interested in the sciences. Over the summer, the medical center hires nine incoming seniors from the three participating schools for summer laboratory jobs. In addition to experimenting with lab work and earning a real salary, the students spend at least one day doing demonstrations, like the DNA experiment, for younger students.

Having students teach students is a boon in Dr. Verner's eyes.

"The closer you can get to their age and still be doing science, the better," he said. "This is an opportunity to provide a real close role model for the younger kids who look up to older kids. They can identify with a high school student who is teaching them science; they also identify very well with the medical and graduate students who go to work with them because they are young."

The miniature scientists don't say much about role models or health choices, but they do say the science centers are "really cool!"

—Emma A. Inman

LECTURES

Schreyer to open Sept. 28 financial symposium

William A. Schreyer, chair emeritus of Merrill Lynch & Co., will kick off a Penn State symposium probing the horizons of financial risk management on Sept. 28 and 29 at University Park.

Sponsored by The Smell College of Business Administration's Center for Global Business Studies, the conference will focus on derivative investments and their impact on the business world. On hand to discuss these sometimes risky, but highly valuable, financial tools will be leading representatives from the international business community, regulatory agencies and the academic world.

Coordinating the conference, which will feature interactive video downlinks to sites in New York City and Washington, D.C., is **Fariborz Ghadar**, director of the Center for Global Business Studies.

Some of the topics to be explored by speakers, panelists and participants include:

- The evolution of derivatives for hedging financial risks.
- Risks and benefits associated with derivatives.
- The complex and changing world of risk management.
- Pricing and risk analysis of derivatives.
- Institutional structure of derivatives markets.
- The future of global derivative markets.

Slated to speak along with Mr. Schreyer will be **William McLucas**,

director of the Division of Enforcement, Securities and Exchange Commission; **Michel Ansencou**, managing director of Indosuez Capital Latin America, Banc Indosuez; **Jean Andre Elle**, board member and head of audit committee, Hydro-Quebec; and **James Kennedy**, managing director of global risk management, Merrill Lynch.

Saeed Abtahi, head, International Advisory Group Inc.; **Jamshid Ehsani**, head of risk management of global derivatives, Citicorp Securities; **Global Derivatives**; **Robert Svensen**, president, Exporters Insurance Co. Inc.; and **Philip Wellons**, deputy director, Program on International Financial Systems, Harvard Law School.

J.D. Hammond, dean of The Smell College and William Elliott Professor of insurance, will participate, along with **William A. Kracaw**, chair and professor of finance, The Smell College; and **J. Randall Woolridge**, professor of finance and Goldman Sachs and Co. and Frank P. Smell University Endowed Fellow.

The symposium will be held in the Penn State Scanticon Conference Center Hotel at University Park. Downlink sites will be at Merrill Lynch, World Financial Center, New York and George Washington University, Washington, D.C. For more information, please contact **Marilyn B. Engle**, Center for Global Business Studies, at (814) 865-0544.

"Michigan Copper Country" is topic of tonight's discussion at University Park

Marc L. Wilson, head of the Section of Minerals at the Carnegie Museum of Natural History in Pittsburgh, will talk on "Michigan Copper Country" at 7:30 tonight, in 301 Steidle Building on the University Park Campus.

His talk, part of a regular monthly meeting of the Nittany Mineralogical Society, will describe the world-famous native copper deposits of Michigan's Upper Peninsula, first mined by Native Americans. Dr. Wilson is recognized as an expert on the Michigan coppers and is author of a special volume titled *Michigan Copper Country* published by the *Mineralogical Record* magazine.

The event is open to the public.

Business lecture focuses on diversity

"Valuing Diversity: Applications and Implications" will be presented from noon-1 p.m. Oct. 10, at the Eastgate Center, Penn State Harrisburg, as part of its continuing Current Issues in Business lecture series.

Stephan Schappe, assistant professor of management at Penn State Harrisburg, will discuss the changing nature of today's workforce, shared characteristics of leading-edge organizations, creating a culture of diversity and how to develop skills for managing diversity.

To register for the lecture, call the Eastgate Center at (717) 772-3590.

Policy research institute hosts lectures

A four-lecture series this fall, hosted by the Institute for Policy Research and Evaluation and the Graduate School of Public Policy and Administration, continues Oct. 10 and runs through Dec. 5. The lectures, open to the public, will all be held from 3-5 p.m. in 12 Sparks Building on the University Park Campus. The fourth lecture will be announced at later date.

Following are the scheduled lectures:

—Tuesday, Oct. 10

"How Many People Died at Your Hospital Last Year? Information and Health Care Markets," presented by **Dennis Shea**, assistant professor of health policy and administration.

—Tuesday, Oct. 24

"Faculty Work and Public Trust," presented by **James Fairweather**, associate professor of education.

—Tuesday, Dec. 5

"Economic Determinants of Abortion and Birth Rates," given by **David Ribar**, assistant professor of economics.

For more information about any of the lectures, contact the IPRE at (814) 865-9561.

Jack Anderson gives first talk in Altoona speaker series

The Penn State Altoona Campus is launching a new Distinguished Speaker Series this year, bringing four eminent personalities to campus.

The series will open Thursday, Sept. 28 with a talk by **Jack Anderson**, internationally syndicated columnist, radio commentator and Washington watcher. "The News Behind the Headlines" will begin at 7:30 p.m. in the Steven A. Adler Athletic Complex.

Mr. Anderson, whose "Merry Go Round" column appears in more than 1,000 newspapers daily, is also heard daily on his national radio program, "Jack Anderson: Watch on Washington." He is the best-selling author of a number of books and it was from his column that the public first heard of the savings and loan scandal, the Iran/Contra arms-for-hostages deal and the danger of Saddam Hussein.

In addition to his reporting activities, Mr. Anderson works with the Young Astronaut Program — which he developed — and the Citizens Against Government Waste, a group he designed along with industrialist J. Peter Grace to excise waste from the national budget.

Other events in the series include:

■ "Failure is Not an Option," delivered by **Gene Kranz**, the director of mission control for Apollo 13, at 7:30 p.m. Wednesday, Nov. 29, in the Community Arts Center.

■ **Gov. L. Douglas Wilder**, the first elected Black governor in United States history, will speak on "Social and Political Changes of the 1990s" at 3:30 p.m. Sunday, Jan. 14, in the Community Arts Center. The event is part of the campus' Martin Luther King Jr. celebration.

■ **Nadine Strossen**, president of the American Civil Liberties Union, will complete the series on Wednesday, March 27, in the Adler Athletic Complex. The talk is scheduled for 7:30 p.m.

General admission to each event in the series is \$5 for the public. Tickets are available at the bookstore on campus and there is a limit of four tickets per person for the series.

Lecture at Harrisburg focuses on state's migration patterns and economic status

A lecture exploring the state's migration patterns and its relationship to economic development will be presented at the Downtown Center, Penn State Harrisburg on Oct. 11.

From noon to 1:30 p.m., **Gordon DeJong**, Distinguished Professor of sociology and director of demographic programs at University Park, will discuss migration and employment and the possible issues involved in a state migration strategy aimed at enhancing economic development. A question and answer period will follow.

For more information about the lecture or to register, contact the Downtown Center at (717) 783-0433.



Jack Anderson

More Lectures

Two-day mining literature conference set for Sept. 28-29 at Fayette

A two-day "Mining Literature and Lore" conference, hosted by the Penn State Fayette Campus, is scheduled for Thursday, Sept. 28 and Friday, Sept. 29 in the J. Lewis Williams Building.

The conference, sponsored by the Southwest Pennsylvania Heritage Preservation Commission, the Michael Baker Corp. and the Fayette Campus, will feature speakers who have preserved life in coal country through their writings and songs.

The Sept. 28 session will open with **Edward P. Campbell**, a reporter for the *Cornellville Daily Courier*, who will discuss unrelieved tension in the coal mining industry. The son of a United Mine Workers organizer, Mr. Campbell is the author of *Between Heaven and Hell*.

Paul J. Cech, an American history teacher at Bethlehem Center High School, will discuss his poetry and the poetry of Carl Sandburg which reflects the coal fields, followed by "The Dying Lore of Pit Sense: United States and British Notion," presented by **Beverly Sauer**, an assistant professor of English and rhetoric at Carnegie Mellon University.

Featured speakers on Thursday afternoon are: **Barbara Angle**, a West Virginia coal miner and

author of *Those That Mattered*, and **Judith Hendershot**, an Ohio teacher and author of *In Coal Country*.

Among the featured speakers on Sept. 29 will be **Albert N. Skomra**, CEO at the Penn State Sheringo Campus, **Evelyn A. Hovanec**, associate professor of English, and **Dennis F. Prestensky**, conference director and *Pittsburgh Post-Gazette* English, who together wrote *Pittsburgh Work Voices: The Culture and Lore of a Mining People* — which involved hundreds of interviews with veterans of the coal mining era.

Dr. Skomra will discuss "D.H. Lawrence, 'Odour of Chrysanthemums': Themes Related to Coal Mining;" **James Dougherty**, assistant professor of history at Indiana University of Pennsylvania, will talk about "The Struggle for an American Way of Life: Oral Traditions of Pennsylvania Miners;" **Sonya Jason**, author of *Iron of Spring*, will discuss the role of women in the coal culture; and Dr. Prestensky will close the conference with "A Sampling of Student and Professional Literary Portraits of Miners and Mining."

For more information or to register, call Dr. Prestensky at (412) 430-4140.

Prominent speakers participate in 1995-96 Colloquy Speaker Series

The 1995-96 Speaker Series sponsored by Colloquy kicked off Sept. 19 and continues through March with visits by such notable figures as Carl Sagan, Helen Thomas and Marian Wright Edelman. Events preceded by an asterisk require tickets for admittance. A maximum of two tickets will be distributed to those holding a Penn State ID. Tickets remaining after disbursement to students, faculty and staff will be made available to the public. Tickets will be released one month before the show.

The schedule follows:

■ **Oct. 6**, at 7 p.m., in Eisenhower Auditorium:

Greg Louganis, the talented and celebrated diver, discusses his climb to the Olympic gold. His visit is co-sponsored by the Coalition of Lesbian, Gay and Bisexual Graduate Students.

■ **Oct. 11** (time and place to be announced):

Greg Kawasaki, founding team member of Macintosh computers, will speak on how to effectively compete in today's business world.

■ **Nov. 6**, at 8 p.m., in Eisenhower Auditorium:

Carl Sagan, scientist, scholar and Pulitzer

Prize-winning author, will discuss intelligent life on earth. His visit is co-sponsored by the Eberly College of Science.

■ **Jan. 6**, at 8 p.m., in Eisenhower Auditorium: **James Lovell**, commander of the first flight to the moon, will discuss his exploits. His visit is co-sponsored by the Eberly College of Science.

■ **Feb. 27**, 8 p.m., in Eisenhower Auditorium:

"The President and the Press." Top political journalists **Helen Thomas**, **Jody Powell** and **Pierre Salinger** will discuss the current political scene. The talk will be moderated by CNN Crossfire's **Juan Williams**. This event is co-sponsored by the College of Communications.

■ **March 27** (time and place to be announced):

Marian Wright Edelman, founder of the Children's Defense Fund, will speak on coalition building as part of Penn State's first Unity Day. This event is co-sponsored by the Unity Day Committee.

For more information on any of these events, contact Colloquy at (814) 865-9382.

Teaching/learning is focus of DuBois offerings

Again this fall, the Penn State DuBois Campus will offer a series of free seminars featuring effective teaching/learning techniques.

Mary Mino, assistant professor of speech communications, will present the first program at noon Friday, Sept. 22, in the Smeal Conference Room. She will discuss "Using Audiocassettes to Enhance Student Success."

Dr. Mino has been successful in using audio tapes to provide important background information to students, thus freeing class time for discussion and active speaking situations. A question and answer session will follow the presentation.

Dr. Mino's program is the first of three free

monthly seminars showcasing innovative learning techniques used by Penn State faculty. The second program, "Collaborative Learning in the Physics Classroom," will be presented by **John Farr**, assistant professor of physics, on Friday, Oct. 27.

The final program for this semester will be presented on Friday, Dec. 1 by **Paul Fehrenbach**, lecturer in music, who will discuss "Using Multimedia in the Arts."

The public is invited to attend any or all of these seminars. More information is available by contacting the Academic Affairs Department at (814) 375-4707.

Candidates sought for honorary degree

Members of the University community are encouraged to nominate potential candidates for an honorary degree from Penn State.

Honorary degrees are awarded to those who are eminent scholars, performers, artists and practitioners in academic fields, or individuals who have made particularly distinguished contributions to society in areas such as public service, business or government.

Under procedures approved by the Board of Trustees, the following guidelines for eligibility have been established: ■ Sustained achievement and distinction of national or international significance in an activity consistent with the mission of the University is the principal criterion for an honorary degree.

■ The nomination of individuals whose achievements and distinction have not been similarly recognized by a number of other institutions is encouraged.

■ Alumni of the University are eligible for the degree in addition to other awards which exist for the purpose of recognizing alumni services and contributions to the University.

■ Individuals serving as administrators, faculty or staff of the University are not eligible, nor are persons currently serving as members of the Board of Trustees, as officials of the Commonwealth of Pennsylvania and its subordinate units, or members of the Legislature during their terms of office; nor are spouses or immediate family members of the foregoing people eligible.

Nominations for honorary degrees should be made to the Committee on Honorary Degrees, which will recommend up to four candidates to President **Graham Spanier**, who will select the name or names to be forwarded for approval by the Board of Trustees.

Last year, the board approved two honorary degree recipients: **Paul Berg**, a Penn State graduate and Nobel Prize-winning biologist, received the honorary degree of doctor of science from the Eberly College of Science; and **Edward Osborne Wilson**, a Pulitzer Prize-winning biologist, educator and author, received the honorary degree of doctor of humane letters from the College of the Liberal Arts.

John A. Dutton, dean of the College of Earth and Mineral Sciences and chair of the Committee on Honorary Degrees, said the group is seeking candidates in four specific areas:

- science and engineering
- social and behavioral sciences
- arts and humanities
- professional and public service

Nominations should include the name, a short biography and a statement explaining why the nominee is worthy of the recognition. All nominations should be sent to **Becky Young**, 201 Old Main, University Park Campus, by Monday, Oct. 2.

Besides Dean Dutton, current members of the Committee on Honorary Degrees are: **Robert Joseph Bartholomew**, CCSG representative; **Bernard W. Bell**, professor of English; **Carolyn R. Dexter**, professor of management and marketing at Penn State Harrisburg; **Gordon P. Garmire**, Evan Pugh Professor of astronomy and astrophysics; **Carol Herrmann**, senior vice president for administration; **Kelly Lynn Holcombe**, USC representative; **Roberta Kevelson**, distinguished professor of philosophy at the Penn State Berks Campus;

Chris Palani, CSA representative (temporary); **Eva J. Pell**, Steimer Professor of agricultural sciences; **Catherine Shultz Rein**, Alumni Association representative; **David A. Shirley**, senior vice president for research and graduate education; **Elliot S. Vesell**, Evan Pugh Professor and chair of pharmacology at The Hershey Medical Center; and **Susan Welch**, dean of the College of the Liberal Arts. Staff support is provided by **Ms. Yung**, administrative assistant to the vice provost, and **Ginny Newman**, special assistant to the executive vice president and provost.

Alumni Fellows

EMS to honor Alumni Fellow on Sept. 28

Carl P. Giardini, executive vice president for Worldwide Exploration and Production for Marathon Oil Co., will visit University Park on Sept. 28-29 to be honored as a 1995 Alumni Fellow and meet with students and faculty members in the College of Earth and Mineral Sciences.

The Alumni Fellow Award, sponsored by the Alumni Association and administered in cooperation with the colleges, is the most prestigious of the association's awards. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.

Mr. Giardini graduated from Penn State in 1957 with a B.S. degree in petroleum and natural gas engineering, and has been with Marathon Oil throughout an eventful and distinguished career.

After initial assignments as a petroleum engineer in the Midwest, he served as reservoir engineering supervisor in Alaska, then as engineering manager for Marathon's western U.S. properties.

In 1977, he was appointed manager of engineering for Marathon International Oil Co. and moved to the United Kingdom, where as manager of the Brae Fields he became a key leader in the development of Marathon's oil interests in the North Sea.

He was named president of Marathon Oil U.K. Ltd. in 1985.

He returned to the U.S. in the late 1980s to hold a number of senior executive positions at Marathon's Houston headquarters, assuming his current position as executive vice president in 1991. Mr. Giardini also serves as a director of Marathon Oil Co., member of the Corporate Policy Committee of USX Corp., and director of the American Petroleum Institute.

Throughout his career, he has maintained strong ties with the College of Earth and Mineral Sciences. He and his wife, Mary Ann, are members of the college's major support group, the Obelisk Society, and established a graduate fellowship in petroleum and natural gas engineering in 1989.

College of Agricultural Sciences names two as Alumni Fellows

Two distinguished graduates of the College of Agricultural Sciences will visit University Park as Alumni Fellows on Oct. 30-31.

Essex Finney Jr., a recently retired associate administrator of the USDA Agricultural Research Service (ARS), received his M.S. in agricultural engineering from Penn State in 1961.

Shirley Malcom, head of the Directorate for Education and Human Resources Programs for the American Association for the Advancement of Science (AAAS), received her Ph.D. in ecology from Penn State in 1974.

Dr. Finney, who earned his Ph.D. from Michigan State University in agricultural engineering in 1963, served for two years in the Army before joining the USDA as a research agricultural engineer. In this position, he helped develop instruments used in evaluating the quality of agricultural products. He also developed instruments to measure the firmness, hardness and ripeness of fruits and vegetables as well as a process to detect hollow-heart defects in potatoes.

In 1972, Dr. Finney was appointed chair of the Agricultural Marketing Research Institute in Beltsville, Md., for ARS. He rose steadily in the managerial ranks filling a variety of administrative positions at various labs and agricultural research centers. In 1982, he was named associate administrator of the ARS, second in authority in the agency which operates 375 research groups in 122 locations in the U.S. and foreign countries.

Dr. Finney recently was inducted into the National Academy of Engineering and has chaired numerous national committees in the American Society of Agricultural Engineers. In 1980-81, he served as senior policy analyst in the Office of the Science Adviser to the President, where he provided advice on issues in the agricultural sciences.



Essex Finney Jr.

At Penn State, Dr. Finney was named Outstanding Alumnus of the College of Agricultural Sciences in 1993 and Outstanding Engineering Alumnus in the College of Engineering in 1985.

Dr. Malcom, a long-time advocate of science education, has worked for the National Science Foundation as a program officer for the Minority Institutions Science Improvement Program and for 10 years served as director of the Office of Opportunities in Science for the American Association for the Advancement of Science.

In her current position as head of the Directorate of Education and Human Resources Programs for AAAS, Dr. Malcom administers programs aimed at increasing the number of minorities, women and people with disabilities in the sciences. She has developed the Linkages Program, a national outreach effort to connect community-based organizations and youth groups to local science resources. She is also the author of the book *The Double Blind: The Price of Being a Minority Woman in Science*.

Dr. Malcom, who earned a B.S. in zoology at the University of Washington and an M.S. in zoology and animal behavior at the University of California at Los Angeles, started her career as a high school science teacher and also worked as assistant professor of biology at the University of North Carolina-Wilmington.

In 1994, she was selected by President Clinton to be a member of the President's Committee of Advisers on Science and Technology. She also was honored by the National Council of Negro Women as one of "Five Black Women Who Make It Happen."

She serves as a member of the Minority Advisory Committee for the Eberly College of Science at Penn State and the Educational Advisory Council of the Carnegie Corp. of New York. She is on the advisory boards of the National Center on Education and the Economy, and the American Museum of Natural History. She is on the advisory council for the Smithsonian Institution.



Shirley Malcom

Faculty/Staff Alerts

Grades by phone

Penn State students at all locations no longer have to wait anxiously for their grades to arrive in the mail. They can now check their grades more quickly from the comfort of their homes or residence halls, thanks to a new phone service provided by the Office of the University Registrar.

Now through Thursday, Sept. 28, students who were enrolled during this past summer session may call toll free 1-800-876-0354, 24 hours a day, seven days a week, to receive their end-of-semester grades.

Fall Semester grades will be available beginning Wednesday, Dec. 20. Grade information will be updated once a week each Wednesday. To use this service, students must have established a Personal Access Code with the registrar's office. Students who do

not currently have a Personal Access Code will be prompted by the telephone system to establish one the first time they call to receive grades.

For additional information about this service, contact the Office of the University Registrar at (814) 865-6357.

HRDC courses

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog. Course descriptions also can be found in the catalog.

■ Giving and Receiving Feedback (COM 003); cost \$35.00.

■ Applying Quality Principles in Daily Work (CQI 002); cost — none.

n An Overview of Continuous Quality Improvement (CQI 001); cost — none.

■ Wordperfect For DOS 6.0 (IBM 005); cost \$160.00.

■ Introduction To IBIS Financial (PRO 059); cost — none.

n Process Benchmarking Case #1 (CQI 027); cost — none.

■ The New Supervisor (LDR 004); cost \$95.00.

■ Becoming An Exceptional Assistant (PRO 050) Meets 1:30-4:30 p.m. Wednesday and Friday, Oct. 18 and 20, in 319 Rider Building; cost \$55.00.

■ Coping With Conflict In The Workplace (COM 012); cost \$35.00.

■ Successful Cross-Cultural Communication, II (COM 025); cost \$35.00.

n Career Planning (CAR 001); cost \$20.00. NOTE: THIS COURSE IS SCHEDULED FROM NOON-1 PM,

NOT NOON-4 PM AS LISTED IN THE HRDC COURSE CATALOG.

Office moves

The Children's Miracle Network office, formerly housed at the University Communications Center of The Hershey Medical Center, has relocated. The new location for CMN is 300 Park Boulevard, Hershey, in the HERCO headquarters building.

The CMN office may still be reached at (717) 531-6188. The fax number for CMN has changed to (717) 534-3968. Correspondence may still be sent to: Children's Miracle Network, P.O. Box 850, Hershey, PA 17033.

The Children's Miracle Network supports services and research at the University Children's Hospital, and outreach programs serving the entire Susquehanna Valley.

Appointments

Head basketball coach named

Longtime assistant basketball coach Jerry Dunn has been appointed head coach of the Nittany Lions, following the unexpected resignation of Bruce Parkhill on Sept. 6.

Coach Dunn, 42, has been an assistant since Coach Parkhill was appointed Penn State head coach in 1983. Born in Raleigh, N.C., and raised in Washington, D.C., Coach Dunn played basketball for two seasons at Casper, Wyoming, Junior College before his career was ended by tendinitis in the knee. He transferred to George Mason College where he began his coaching career as a volunteer assistant, spending six seasons as an assistant there before leaving for Penn State.

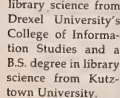
Coach Parkhill, 46, was the Penn State coach for a dozen seasons, including some of the most successful in the history of the program. His teams were 181-169. Under his guidance, the Nittany Lions had five 20-win seasons, including a 21-11 mark a year ago; earned a bid to the NCAA Tournament and a memorable victory over UCLA; twice reached the Final Four of the National Invitation Tournament and won an Atlantic 10 Championship. Every season to play for Coach Parkhill earned his degree.

"Coaching can't be a job, it has to be a passion," Coach Parkhill said. "This is not a sudden decision. I have contemplated getting out of coaching for seven or eight years. And then every summer I would get rejuvenated. In my heart, I knew it was time for me to step down." He will remain with the athletic department as an assistant to the athletic director.

Great Valley appoints administrators

Penn State Great Valley has made the following administrative appointments:

■ **Dolores Fidishun** has been named head librarian. Ms. Fidishun, a doctoral candidate at Widener University, comes to Great Valley from Widener University's Wolfgram Memorial Library, where she served as head of audiovisual services. She holds a master's degree in adult education from Widener, a master's degree in library science from Drexel University's College of Information Studies and a B.S. degree in library science from Kutztown University.



Dolores Fidishun

Ms. Fidishun has served in a variety of senior administrative positions at institutions throughout the Philadelphia region, including audiovisual department head for the Montgomery County District Library Center and coordinator of district library services and school media specialist for the Palisades School District.

■ **Allison E. Jones** has been named director of continuing education.

Before her appointment, she served as acting, director of continuing education at Penn State Great Valley, where she previously worked since 1991 as a continuing education representative.

In addition, Ms. Jones held the position of director of continuing education at Harcum Junior College in Bryn Mawr and served as an area representative at the Penn State Delaware County Campus.

After receiving her bachelor of arts degree from Cheyney University, Ms. Jones earned her master of science degree in adult and continuing education, also from Cheyney University. She is a member of the National University Continuing Education Association and the Pennsylvania Black Conference on Higher Education.

■ **David O'Leary** has been named director of Great Valley information technology. Mr. O'Leary comes to Great Valley from La Salle University in Philadelphia, where he served as manager of administrative systems and programming.

In the past, he was responsible for administrative software, user training and support, staff hiring and development, purchase and maintenance of network equipment, software design and evaluation of new hardware and software.

Mr. O'Leary holds a bachelor's degree in economics from La Salle University and is completing his master's of business administration degree there.



Allison E. Jones



David O'Leary

Writer a professional-in-residence

Tom Belden, a staff writer for *The Philadelphia Inquirer*, has been chosen to participate in the Professional-in-Residence Program co-sponsored by the College of Communications and the *Inquirer*.

Beginning its third year, the program brings professional journalists to the University Park Campus to take and instruct classes, speak in communications classes, work with faculty on special projects and meet with students to discuss career counseling and interviewing techniques.

Mr. Belden, a 16-year veteran at the *Inquirer*, specializes in the coverage of travel and hospitality industries for the business news section. In 1988, he began writing a weekly column on business travel that has been a standing feature on the Knight Ridder/Tribune newswire for the past six years.

Born in Mexico City and raised in Texas, Mr. Belden received a bachelor's degree in journalism and history from Baylor University in 1970. He earned a master's degree from Columbia University Graduate School of Journalism in 1971.

Mr. Belden was hired by the *Inquirer* in 1979 and joined the paper's business staff the following year.

Business Services director joins Schuylkill Campus

Cheryl A. Holland has been appointed director of Business Services and financial officer at the Penn State Schuylkill Campus.

She will be responsible for all financial affairs, human resources, physical plant safety and maintenance.

Mrs. Holland most recently served as the human resource director for Leader Nursing and Rehabilitation Center in Pottsville. Previously, she served eight years with Pomero's Inc. and its successor, Bon-Ton Stores Inc. in a variety of roles, including area sales manager, divisional store manager and human resources/operations manager.

A graduate of Albright College with a degree in business administration, Mrs. Holland is a member of the Society for Human Resource Management.



Cheryl A. Holland

Allentown Campus welcomes development officer

Janice Pope has joined the staff at Penn State Allentown as campus development officer and theatre instructor. Ms. Pope holds a master of fine arts in directing/acting from Syracuse University. She previously worked as an adjunct faculty member at the Penn State Allentown Campus and also worked as annual support director/special events director/development projects coordinator for Holy Redeemer Foundation, Meadowbrook, Pa.



Janice Pope

Hazleton Campus appoints advising coordinator

Linda Stevens has been appointed the new advising programs coordinator for the Penn State Hazleton Campus. In this position, she will be responsible for coordinating the academic advising center activities at the campus and working with students and faculty to aid students in their academic programs.

Ms. Stevens came to the University from Utah, where she was turning point counselor for the Davis Applied Technology Center. In that position, she assisted students, single parents and displaced homemakers with the transition into an educational program.

Her counseling activities included career assessment, gender equity training for students, faculty and staff, harassment and discrimination counseling and community outreach.

She holds a B.S. degree in child and family development and an M.S. degree in educational psychology, both from the University of Utah.

University to undertake new long-range budget planning

Penn State will undertake new long-range planning efforts to "take a very serious look" at how it will face up to budget challenges over the next five years, President Graham B. Spanier told the University Faculty Senate at its Sept. 12 meeting.

Dr. Spanier said those efforts will be led by John Brighton, provost and executive vice president.

He also said that the state legislators and state officials he has met consider Penn State to be well managed, recognize its contributions to the state and understand its three-part mission of teaching, research and service.

Their statements, Dr. Spanier said, make it "a little difficult to grasp why that doesn't translate into greater support — why Pennsylvania has ranked in the last decade no higher than 40th in per capita appropriations for higher education, why the Penn State appropriation has increased only percentage points, cumulatively, over the last several years, why Penn State's agricultural research programs and cooperative extension service have received no funding increases over the last several years, and why the Tuition Challenge Grants are the only part of our budget to have increased in the last few years."

Penn State is in "good financial health," he said. But he ticked off a number of significant budget challenges he sees over the next several years, including high-priority program needs and previous commitments, required increases in the University's contribution to retirement benefits, increasing costs in health care plans and salary increases.

"There is not going to be balance in our budget if our state appropriations continue at something like the same level they have been," Dr. Spanier said.

In his first appearance at a Faculty Senate meeting since he became president, Dr. Spanier said he



President Graham Spanier in his first appearance before the University Faculty Senate on Sept. 12.

Photo: Greg Grieco

plans to informally update the Senate on various issues at each meeting and then respond to questions. "I consider these meetings an open forum for discussion and debate," he said.

In his wide-ranging talk last week, Dr. Spanier touched on the Commonwealth Educational System, University growth, enrollment, housing and other issues.

"Nothing will be a higher priority for me this year than paying attention to the quality of life at this University," Dr. Spanier said. "In a very broad sense, we have to embrace the concept of humaniz-

ing the University — making this a worker-friendly and a student-friendly environment, making sure policies and programs are delivered in a way that makes it easy to get your job done in an environment free of intolerance and harassment. These kinds of things require efforts on everyone's part, from the president on down."

In other comments, Dr. Spanier said the University in the future must carefully plan its growth, consider whether more on-campus housing needs to be built and evaluate the mission of CES.

"There's no doubt the CES is a tremendous asset to this University," he said.

Dr. Spanier said his vision for CES is not yet fully developed. But rather than have 17 campuses that offer two years of course work to prepare students for a move to the University Park Campus, he said, some campuses may do better by changing their missions to focus on continuing education, or work toward advanced degrees or more closely meeting specific educational needs in the surrounding communities.

He also suggested that the relationship between central administration and the campuses may change, in order to empower those at the campus level to make appropriate decisions.

In other business, the Senate heard informational reports on University efforts to control rising health care costs, on the Legislative Advocacy Network efforts to communicate effectively with state legislators, the mid-semester evaluation process for undergraduates and the planning and budget process leading up to the current academic year.

The Senate will next meet at 1:30 p.m. Oct. 24, in 112 Kern Graduate Center.

— Alan Janesch

News in Brief

Great Insect Fair

If you haven't had the opportunity to sink your teeth into any exotic food lately, how about trying some chocolate covered crickets?

Once again, the College of Agricultural Sciences is hosting its annual Great Insect Fair on Sept. 23, in the Agricultural Sciences Building, from 10 a.m. to 4 p.m. Visitors will have the opportunity to taste insect delicacies cooked up by a University entomologist and can also tour the Frost Entomological Museum, participate in arts projects and attend informational sessions.

Annual Horticultural Show
From Sept. 30 through Oct. 1, the Ag Arena on the University Park Campus will be the site of the 82nd Annual Horticultural Show, sponsored by the College of Agricultural Sciences' Horticulture Club.

From 9 a.m. to 5 p.m. visitors can view an array of plantings and landscape designs planned, designed and constructed by students.

The event is free to the public. For more information, contact Dan Stearns, at (814) 863-0307.

Science writers meet

Pat Shipman, a writer and paleoanthropologist, will lead a lunch time roundtable discussion hosted by the Penn State Chapter of the National Association of Science Writers, at noon Wednesday, Sept. 27, in 114 Kern Building. She will discuss women in science.

Dr. Shipman is a former faculty member at Johns Hopkins Medical School. Her most recent book, *The Evolution of Racism: Human Differences and the Use and Abuse of Science*, was published in 1994 by Simon and Schuster.

In 1996, Alfred A. Knopf will publish a book Dr. Shipman co-authored with her husband, Alan Walker, titled *The Wisdom of the Bones: In Search of Human Origins*.

NASW lunchtime programs are open to anyone interested in science communication. For more information, contact Scott Turner by phone at 865-9481, or by E-mail at sxt11@psu.edu.

Bryce Jordan Job Fair

The Bryce Jordan Center will hold a job fair Saturday, Sept. 23, from 10 a.m.-4 p.m. The job fair will take place at the corner of University Drive and Curtin Road in the Shields Building

parking lot, and will provide an opportunity for anyone interested in events-related employment with the center to gather information and apply for the hundreds of jobs that will be available when the facility opens.

Some of the jobs that will be available include: ushers, ticket takers, security personnel, stage hands, set-up and clean-up staff, concessions and novelty personnel, tour guides, telephone operators and receptionists. Most positions will directly relate to events held at the center with day, evening and weekend hours available. Orientation and training sessions will be provided before the opening.

The 15,000-seat Jordan Center is scheduled to open in January.

"Anxious" subjects sought

The Stress and Anxiety Disorders Institute is looking for people between the ages of 18 and 65 who may be experiencing Generalized Anxiety Disorder. You may be experiencing this disorder if:

- 1) You worry excessively or unrealistically or are overly anxious much of the time;
- 2) You have experienced this excessive worrying or anxiety for at least six months;

3) You also experience physical symptoms while worrying, such as trembling, muscle tension, restlessness, fatigue, shortness of breath, increased heart rate, sweating, dizziness, abdominal distress, frequent urination, sleep problems or irritability;

4) These concerns are not about having panic attacks.

To participate in the institute's ongoing study of this disorder, contact a member of the staff at (814) 865-1725. Strictest confidentiality will be maintained.

Children's movement and games program

A free program in basic movement skills and games for children ages 5 through 8 will be sponsored by the College of Health and Human Development beginning Oct. 10. The program will be held from 3:45-4:25 p.m. Tuesdays through Nov. 14, in 126 White Building. Individual help will be available for any kindergarten or first-grade child who requires assistance in any area of motor development.

Registration is at 3:35 p.m. Tuesday, Oct. 10, in 126 White Building.

Discovery adds half-million years to human history

A fossil discovery by Alan Walker, professor of anthropology and biology, and colleagues, has lifted the veil from a half-million years of earliest human history. The finding of jaw, skull and lower leg bones of a two-legged primate—or hominid—at Kanapoi and nearby Allia Bay in northern Kenya, establishes the presence of early human ancestors between 3.9 million and 4.2 million years ago in the Lake Turkana region of East Africa.

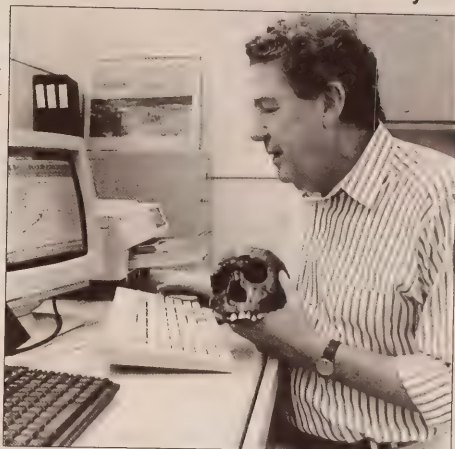
The finding was announced in a recent article, co-authored by Dr. Walker, Meave G. Leakey of the National Museums of Kenya, Craig S. Felber of Rutgers University and Ian McDougall of the Australian National University, in the scientific publication *Nature*.

Dr. Walker and his colleagues believe the bones are from a new species that they have called *Australopithecus anamensis*.

"This fossil gets close to the time of splitting of the ape and human lineages, and fills in a bit more of the gap in our knowledge of human evolution," Dr. Walker said. "The creature was small brained, but walked upright on two legs, a mark of hominid lineage. The leg bones are thickened to absorb the weight and shock of upright walking, and the ends of the leg bones (condyles) are asymmetrical from the shifting of weight from leg to leg. The structure of the jaw is somewhat apelike, but the upright roots of the canine teeth are characteristic of hominid, and not ape morphology. However, judging from the large size of the parietal tunnel for the wrist tendons, *Australopithecus anamensis* may have still swung from trees."

Because the fossil remains were recovered from sediments of volcanic ash containing radioactive minerals, they can be dated based on the residual amount of radioactivity. The earliest human ancestor previously known was the famous "Lucy," a representative of *Australopithecus afarensis* dated to about 3.18 million years ago. The structure of Lucy's limbs and pelvis indicated that she walked upright. Footprints of hominids earlier than Lucy had been discovered, but the new finding provides the first earlier fossil evidence for the emergence of bipedalism.

Dr. Walker, one of the world's leading paleontologists, joined the faculty of the departments of anthropology and biology at the start of fall semester. He previously was a professor of cell biology and anatomy at The Johns Hopkins School of Medicine.



Alan Walker, professor of anthropology and biology, checks a time chart. Dr. Walker and colleagues have found fossil evidence of what appears to be an early human ancestor dating back to somewhere between 3.9 million and 4.2 million years.

Photo: Greg Grieco

"The appointment of Alan Walker brings together at Penn State anthropologists who are among the most prominent in the world in the study of both physical remains and genetic evidence for human evolution. No other university can now match our faculty in the field of biological anthropology," said Kenneth Weiss, former head of the Department of Anthropology.

Dr. Walker's contributions in his recent book, *The Nariokotome Homo Erectus Skeleton* (Harvard University Press: Cambridge, Mass., 1993), co-edited by Richard Leakey, present the description and analysis of what is widely considered to be the most important hominid skeleton ever discovered.

In a review in *Science* magazine (July 15, 1994), this book was called "a model for descriptive and comparative analyses against which all subsequent endeavors will be measured... this work will stand as one of the classics of paleoanthropology." The book received the American Association of Publishers Award for Best Book in Anthropology in 1993.

His field work has included study of living primates, such as Madagascar lemurs and East African primates. He has directed excavations in Madagascar,

Uganda and Kenya, and has been a member of the Koobi Fora Research Project since 1968 and the West Turkana Project since 1984, both concerned with hominid origins.

Dr. Walker received his bachelor's degree with honors in natural sciences from Cambridge University and his doctorate in anatomy and paleontology from the University of London. From 1965 to 1969 he was a lecturer in anatomy at Makerere University College, Kampala, Uganda. He was a senior lecturer in anatomy at the University of Nairobi, Kenya, from 1969 to 1973.

From 1974 to 1978, he was associate professor of anatomy at Harvard Medical School and a research associate at Harvard University's Peabody Museum. While there, he created the human origins exhibit that is now housed at the Museum of Comparative Zoology at Harvard.

His excavations in Kenya have been funded by several grants from the National Science Foundation and the National Geographic Society, and also by the L.S.B. Leakey Foundation. He is associate editor of the *Journal of Human Evolution*.

Research Roundup

Software dissects medical images

Physicians can now quickly "electronically biopsy" CAT scans, angiograms and MRI images with new graphical user interface (GUI) systems developed by University researchers.

The systems, called INTERSEG and IMPROMPTU, were developed by a team headed by William E. Higgins, associate professor of electrical engineering.

Physicians can use the new system intuitively by relying on their medical training, rather than extensive computer training.

"INTERSEG allows the user to supply information in language he or she is comfortable with, and forces the computer to deduce the appropriate processing from a wide range of available options," Dr. Higgins said.

The new GUI systems are particularly amenable to 3-D analysis of the heart and lungs, he said. Existing systems, which depend on trial-and-error methods that take large blocks of a physician's time, have been applied primarily to still organs like the brain.

If, for example, the physician is trying to identify blockages in coronary arteries or an abnormality in heart muscles or bronchial passages using currently available techniques, it could take up to four hours to pick the region of interest out of the image and then analyze and measure it.

Using INTERSEG and IMPROMPTU, the same task could take as little as five minutes of user interaction.

Voting gender equity

While four decades ago the percentage of American women voting was 60 percent that of men, today's men and women vote at virtually the same rates, according to a Penn State sociologist.

"When we follow the 19th Amendment generation from elections in the late 1950s through elections in the 1980s, we can see that its voting rates did not converge for men and women," Glenn Firebaugh, professor of sociology, said.

"On the other hand, no gender gap exists for the post-19th Amendment generation of voters," Dr. Firebaugh said. "The data shows that the daughters and granddaughters of 19th Amendment women vote at the same rate as their male contemporaries."



A regular column provided by Intercollegiate Athletics.

Jordan Center

As construction proceeds on the new 15,000-seat Bryce Jordan Center, the project appears on track for a Jan. 11 opening when the Minnesota Golden Gophers visit for a Big Ten men's basketball game. For information on tickets to Penn State men's and women's basketball games in the Jordan Center, fans may call the ticket office at (814) 863-1000. Information on ticket availability and prices will be forwarded upon request.

Nittany Lions on ESPN

ESPN Television, the popular cable sports channel, will showcase the Penn State football teams in nighttime telecasts of upcoming games against Rutgers and Wisconsin. The Rutgers game, the first road appearance of the season at Giants Stadium in the New Jersey Meadowlands, will air on the ESPN College Football Association "Game-of-the-Week" at 7:30 p.m. Sept. 23. The visit of the Badgers as a Big Ten opponent is part of an ESPN-TV doubleheader on Saturday, Sept. 30. Kickoff for the national cablecast is 5:45 p.m. Wisconsin, the Rose Bowl champion in 1994, did not appear on the Penn State schedule during the Nittany Lions' first two years as a conference member.

Nittany Lion Club

Penn State's Nittany Lion Club was established in 1960 to promote support for the athletic grant-in-aid program. The growth and success of the Nittany Lion Club parallels that of Penn State sports. As our teams achieve more success, fund-raising efforts succeed as well. In the 1995 fiscal year (July 1, 1994, through June 30, 1995), more than \$7 million was raised through Nittany Lion Club donations. That put Penn State in first place among its Big Ten counterparts.

This type of financial support is vital to the success of Penn State 29-sports intercollegiate program. When you hear or make the statement—"We Are, Penn State"—there are many who can shout a bit louder from their vested interest as one of the nearly 18,000 members who contribute annually to the Nittany Lion Club. The support of faculty and staff who already are Nittany Lion Club members is greatly appreciated and anyone interested in becoming a member should call (814) 865-9462.

University makes significant gains

Eleven Penn State research-doctorate programs were ranked among the top quarter of their respective fields, according to a new National Research Council survey. The survey assessed the scholarly quality of faculty in 41 academic fields and provided several other indicators of program quality, including the effectiveness of the program in educating research scholars/scientists.

The results of the survey indicate that Penn State's faculty quality has improved significantly since the previous NRC study completed in 1982. Of the 32 fields represented in the earlier report, four programs at Penn State were ranked in the top quarter. Overall, mean ratings of the scholarly quality of faculty in the new NRC study increased in most of the 36 fields represented at Penn State, many with substantial gains.

The top quarter programs are biochemistry and molecular biology, chemical engineering, chemistry, electrical engineering, industrial engineering, geography, geosciences, materials science, mechanical engineering, psychology and sociology.

"We are seeing the benefits of a lot of hard work and dedication on the part of Penn State's excellent faculty and graduate students," said David Shirley, senior vice president for research and graduate education. "We are also seeing the benefits of the Uni-

versity's strategic planning and key investment decisions in programs that have been made since the last rankings.

"Successful doctoral programs are built on top quality faculty who attract higher caliber graduate students, who in turn help to attract more talented and productive faculty members," he said.

"These gains for Penn State's doctoral programs are related in significant measure to quality leadership at the program, department, college and university levels—all working together toward the common goal of excellence," he said.

Rodney Erickson, dean of the Graduate School, noted, "But the NRC rankings represent only a subset of Penn State's doctoral programs. Based on other surveys of program quality, we also have several other nationally recognized doctoral programs in fields not covered by the NRC study."

Of the overall total, three Penn State programs were ranked in the top 10 of their fields: geography, No. 1; materials science, No. 9; and industrial engineering, No. 9.

In the College of Earth and Mineral Sciences, where three graduate fields were represented, each of them was ranked in the top 12 and the top one-eighth of all programs in their respective fields. The No. 1 ranking will highlight the October celebration of the 50th anniversary of the Department of

Geography, which became a separate degree program in 1945.

The four-year study, "Research Doctorate Programs in the United States," was released Sept. 12 by the National Research Council. Researchers studied 3,634 academic programs at 274 institutions—105 private and 169 public—with participation from more than 8,000 faculty members. The NRC rankings are widely used by faculty, prospective graduate students and administrators as a good barometer of program quality.

"We're delighted with the obvious progress that our doctoral programs have made since the 1982 rankings," Dr. Erickson said. "These gains were made despite the austere fiscal situation that has confronted the University over this period."

In addition, 14 Penn State programs were ranked in the second quarter, which also demonstrates the advancements in the quality, breadth and depth of the University's overall research-doctorate programs. The programs are anthropology, biomedical engineering, cell and developmental biology, civil engineering, computer sciences, ecology, evolution and behavior, economics, English language and literature, mathematics, molecular and general genetics, physics, physiology, Spanish language and literature, and statistics.

Obituaries

Rathnamala Arumugan, research assistant in the College of Earth and Mineral Sciences, from June 1, 1993; died Aug. 20 at the age of 45.

Luther T. Bissey, associate professor in the College of Earth and Mineral Sciences, from Jan. 1, 1936 until his retirement Jan. 1, 1973; died July 24. He was 82.

Earl J. Bruce, assistant professor of physical education and athletics, from Sept. 1, 1946 until his retirement Sept. 1, 1970; died Aug. 27 at the age of 90.

Carolyn R. Schrock, associate professor of community resource development in the College of Agricultural Sciences, from April 1, 1966 until her

retirement July 1, 1979. She died Aug. 28 at the age of 76.

Hannah M. Srock, nutrition aide in the College of Agricultural Sciences, from Feb. 10, 1971 until her retirement Feb. 1, 1987. She died July 18 at the age of 73.

PENNSTATE INTERCOM

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INTERCOM

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President stresses partnership during first tour stop at Fayette

Partners for the future — that was one of the key messages for the Penn State Fayette Campus, Fayette County and surrounding counties from President Graham B. Spanier at the first stop on his Statewide Tour.

The tour is part of the president's statewide initiative to rededicate the University to the people it serves and to reinforce Penn State's commitment to its diverse constituencies. The 25 visits to campuses, with special stops in Philadelphia, Pittsburgh and Harrisburg, will provide opportunities for citizens to express their views and increase their understanding of Penn State and higher education in general. At meetings with community and business leaders, Dr. Spanier said, "You need to let Penn State know what it needs to provide to move your community forward. For example, we want to engage in a process where we talk about the future of the Commonwealth Educational System, originally devised for traditional-age freshman and sophomore students. We need to look at the mission of each of our different campuses, thinking about where we need to make adjustments to better serve the communities and the region."

"We have to be looking ahead rather than behind," he said. "We need your help in looking at the curriculum at Penn State and deciding whether it is adequate for preparing people for the 21st century."

In addition, the University has a role in assisting the southwestern Pennsylvania region in facing its special challenges — such as an increasingly aging population and



On the road

President Spanier began his whirlwind, 25-site, yearlong tour on Sept. 20 with a stop in Fayette County. Here, he has a question/answer session with students at the Fayette Campus.

Photo: Greg Grieco.

See "Tour" on page 3

Reorganization of advisory groups by Spanier

President Graham B. Spanier has reorganized administrative advisory groups and will look toward two key policy groups to help him manage the day-to-day operation of the University.

Central Management Group (CMG) has been reorganized as President's Council, and the Council of Academic Deans (CADs) will serve as his other key policy group. Another group, the President's Advisory and Policy Council (APAC), has been eliminated.

President's Council meets weekly to discuss strategic issues, offer advice, set priorities, and implement the president's directions.

The second key policy group Dr. Spanier intends to rely on during his tenure is the Council of Academic Deans, which meets with the president and provost once every other week.

These changes occur as the president significantly seeks broad consultation with deans, faculty, staff, students, alumni, legislators and community groups during his first official month at Penn State.

The new organizational structure more broadly represents key areas of Penn State that Dr. Spanier will emphasize during his tenure.

"Needs change constantly for a university the size and complexity of Penn State," Spanier said. "This is a good time for me to organize my senior staff in an efficient core group that will help me take advantage of the new opportunities in higher education during the latter half of this decade."

Serving on the President's Council are:

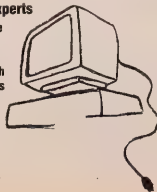
William W. Asbury, vice president for student affairs; John A. Brighton,

See "Reorganized" on page 2

Inside

Database of experts

A global database listing experts, inventions and potential research funding sources is available to Penn Staters. See page 4 for details.



Plant invasion

A non-native plant species is threatening the natural habitat of Presque Isle, near Erie. See page 15 for information on what researchers from Penn State Erie, The Behrend College are doing.



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Faculty sought for 1996 Scholars in Residence

The Office of Summer Sessions is inviting nominations and applications for The Scholars in Residence Summer Program for Minority Faculty for 1996. Applications must be received by Oct. 13, and appointments for next summer will be made by Nov. 17.

Designed for minority scholars who hold doctorates from institutions other than Penn State, the program provides teaching opportunities to artists, executives, administrators, experienced teachers and research scholars whose talents and record of achievement can enrich the classroom, library or the research laboratory.

Call for award nominations goes out

Nominations for three international awards are being sought by The International Council. Funded by the Office of International Programs, the awards will recognize one undergraduate student, a graduate student and a member of the faculty or staff who have significantly contributed to the advancement of Penn State's international mission. Each award carries with it a certificate of recognition and a \$1,000 stipend.

Applications and nominations, plus all

Those selected will teach courses in their specialties to either graduates or undergraduates at one of the University's colleges or campuses; meet with students in their majors; attend University functions; engage in research, and become part of the summer community on campus. Scholars in Residence receive a salary, and partial travel and living expenses.

For an application or more information, interested persons should contact the Office of Summer Sessions, Spruce Cottage, University Park, 16802; telephone (814) 863-4174; FAX (814) 863-7959.

supporting materials, must be received in 115 Arts Building on the University Park Campus by Friday, Dec. 8. Finalists in each of the three categories will be honored at a reception and the winners will receive their awards at the annual Awards Convocation in the spring.

For more information about each award or to request application/nomination forms, contact Edward W. Williams, 115 Arts Building, University Park, (814) 863-0408.

Reorganized

continued from page 1

executive vice president and provost; Robert Dunham, senior vice president and dean for the Commonwealth Educational System; C. McCollister Evans, senior vice president for health affairs and dean of the College of Medicine; Carol Hermann, senior vice president for administration; Bill Mahon, interim executive director, University Relations; Delbert J. McQuaide, University counsel; David R. Schuckers, special assistant to the president for governmental affairs; Gary C. Schultz, senior vice president for finance and business; and David A. Shirley, senior vice president for research and graduate education. In addition, Timothy M. Curley, athletic director, will serve on the council as an affiliate member.

While the national search is taking place to identify a new vice president for the Division of Development and Alumni Relations, two additional people will serve on the President's Council: Brad E. Choate, associate vice president for development, and Peter B. Weiler, assistant vice president and executive director, Alumni Association.

"I have eliminated PAPC after extensive consultation. A 25-member

group, PAPC is a group that grew too large over a period of years to be effective for the president," Dr. Spanier said. "I will maintain regular contact with all former PAPC members either individually or through the President's Council, the Budget Task Force, the Council of Academic Deans or invitations to me to attend the provost's staff meeting on an as-needed basis."

"During the month of August and into this month I have met individually with all of the deans, all of the vice presidents and all of the senior members of the administration," he said. "I have also spent a great deal of time with faculty and have recently concluded a series of lunch meetings with about 100 Evan Pugh Professors, distinguished professors, faculty chair holders and faculty members of the various national academies. These sessions have been invaluable to me."

"On campus I have had about a dozen sessions with students, including student government leaders and groups such as the Commission on Women and have many more such meetings planned in the near future."

DIVERSITY BRIEFS

Interfaith Chapel dedicated in Hershey

A new Interfaith Chapel was dedicated Sept. 17 at The Hershey Medical Center. The chapel, intended as a place for refuge, prayer and reflection, integrates the scientific dimension of health care with religious faith for visitors, patients and staff.

The chapel has separate areas for specific prayer practice of the Christian, Jewish and Islamic religions and is the result of a successful fund-raising campaign that raised more than \$500,000.

Cultural diversity speakers at McKeesport

The Penn State McKeesport Campus will host a cultural diversity speaker series focusing on the "Family of Man" as theme for the 1995-96 programs.

The series will examine family life of different cultures.

On Oct. 24, Frank Neish of the McKeesport Heritage Center will speak on Italian and Jewish family life.

On Nov. 16, Lydia Hale of the Pittsburgh American Indian Center will describe Native American family life.

All programs will be held in the First Evangelical Free Church auditorium at 1:30 p.m.

Festival of Cultures

Organizers of the annual Festival of Cultures, a street fair complete with music, information booths about various cultures, food and other forms of entertainment, are currently seeking interested groups to get involved.

The celebration of diversity, planned for noon to 5 p.m. Saturday, Oct. 14, in Calder Way in downtown State College, will include many of the area's cultural groups, but others interested in participating are encouraged to call (814) 238-7004.

Obituary

Visionary forestry professor dies

Maurice Goddard, professor emeritus of forestry and former director of the School of Forestry, died Sept. 14 in a house fire, one day after his 83rd birthday.

Mr. Goddard, renowned for his environmental advocacy, left the School of Forestry in 1955 for a career as one of Pennsylvania's most visionary public officials. He served for 24 years under five governors as secretary of the state Department of Forests and Waters, (later the Department of Natural Resources). While in office, Mr. Goddard changed the face of Pennsylvania and opened up the state's natural beauty to generations of residents by developing a vast system of state parks and dams.

His self-imposed mission to have "a state park within 25 miles of every Pennsylvania" was accomplished before he retired in 1979. During his tenure as forestry secretary, 45 state parks totaling some 130,000 acres were created.

In order to expand the state's water supplies and control floods, he embarked on several dam projects that drew criticism from legislators and environmentalists. During his administration, the Kinzua Dam on the upper Allegheny River was finished and the Blue Marsh Dam was built on the Schuylkill River.

Mr. Goddard, whose nickname in Harrisburg was "Doc," never earned a Ph.D. but was awarded honorary doctoral degrees from Waynesburg College, the University of Maine and Gettysburg College. He received a bachelor's degree in forestry from the University of Maine and a master's degree from the University of California at Berkeley. He joined the Penn State faculty in 1935 as an instructor of forestry at the Penn State Mont Alto Campus. In 1942, he entered the U.S. Army as a first lieutenant and left the Army in 1946 as a lieutenant colonel, having earned the Legion of Merit and the Bronze Star.

Upon returning to Penn State in 1946, Mr. Goddard was named director of Penn State's School of Forestry at Mont Alto, and in 1952 he became director of the school at University Park. He left the University to join the administration of Gov. George Leader. He retired as professor emeritus in 1978, having served on the Penn State Board of Trustees for seven years.

After his retirement, Mr. Goddard kept active in both government and university affairs. He served on many committees and advisory boards. To perpetuate his philosophy of conservation as an ethic and way of life, the University established the Maurice K. Goddard Chair in Forestry and Environmental Resource Conservation in 1983.

Tour

continued from page 1

above-average rates of unemployment, poverty and high school dropouts.

"It's important that the University see its role as being a partner in helping the community on the human development side as well as the economic development side," he added.

A big white sign at the entrance to the campus boasted the greeting, "Fayette Campus Welcomes President Spanier!" The day started briskly at 8:30 a.m. with back-to-back meetings with campus administrators, faculty, staff, students and the campus advisory board.

Dr. Spanier also toured most of the facilities including the Eberly Classroom Building, the library, which contains a collection of coal mining literature and artifacts, and the Williams Building which houses student services. During the tour, the campus administrators explained the types of programs currently available, how laboratories are used to educate the students, and certain issues and concerns over the past years.

At the student meeting, he fielded questions such as why more baccalaureate programs were not available at the Fayette Campus, why some associate degree credits were not able to be transferred directly to a baccalaureate program and how additional funding was needed for student facilities and activities.

Dr. Spanier clarified misperceptions and explained the history and background behind the development of some programs and policies. He also noted that the recently approved student activity fee will send the money generated by the students of a particular campus directly back to that campus for student programs, in consultation with the campus student leaders.

"You send a lot of tuition dollars to University Park, but they come back to you for the most part," Dr. Spanier told the students. "Keep in mind that tuition is only one part of the University budget, it's not the majority of the University budget. State appropriations are only 17 percent of the budget. When you hear about Penn State's big budget of \$1.6 billion dollars, \$347 million of that comes from outside Penn State in research grants and contracts. The Hershey Medical Center brings in \$400 million dollars alone, almost entirely from patient revenue from the hospital. It's not that simple. You need to believe that very close to your fair share of your tuition is coming back here to promote your education."

He noted that a new biomedical technology laboratory planned for the campus has been funded completely by state monies, although providing staff to take care of the new lab will have to come from the University's overall budget. Many of the recent renovations at the campus have been funded by community donations, noted Campus Executive Officer August Simonson.

Throughout the day, campus and community leaders presented the president with gifts such as T-shirts bearing "Penn State — Roaring into the Future, Fayette Campus;" a book "History of Fayette County;" from William McCoy of the Conellsville Historical Society; and a proclamation declaring Sept. 20 as "President Graham B. Spanier Day" from Fayette County Commissioner Fred Leber.

The tour also included visits with area alumni and donors, agricultural Cooperative Extension agents and representatives of the Fayette County social service agencies.

One stop was at the Laurel Highlands High School in Uniontown, where Dr. Spanier spoke



Meeting and greeting

Dr. Spanier met with members of the Human Resource Council, which represents social service agencies. From left are, K.J. Collamer of West Penn Power Co., John Reasus, Southwestern Pennsylvania Area Agency on Aging, William Huebner, director of Head Start program, and Nancy Treast, professor in charge of the associate degree in human development studies program at the Penn State Fayette Campus.



A light moment

Dr. Spanier demonstrated his CPR skills on a mannequin in the Eberly Building's nursing clinical laboratory, used by the associate and baccalaureate degree nursing programs.

Photos: Greg Grieco

with students, teachers and administrators from five area high schools in the library. He answered many questions about topics such as the University's application process, the size of classes, Scholars Program, internship programs and study abroad opportunities.

Dr. Spanier encouraged the young students, no matter what college they selected, to make full use of all the resources — academic, extracurricular and social. "When you get to a university the size is not as important as finding a place to plug in. Get to know one faculty person really well," he said. "You need to think about the total university experience, not only what happens in the classroom, but also outside, such as marching band, sports, music or a club that's geared to your major."

However, he did ask the crowd of some 30 students how many plan to apply to Penn State. Nearly all raised their hands.

"Oh, wonderful," Dr. Spanier smiled. "That's what I like to see."

— Vicki Fong

NEXT STOP: DuBois Campus

Dr. Spanier continues his statewide tour with a stop Friday at the Penn State DuBois Campus in Clearfield County. His agenda for the second stop on his 25-site tour follows:

- Visit to DuBois Area High School
- Meeting with faculty and staff
- Meeting with students
- Meeting with DuBois Educational Foundation
- Tour of Atlas Pressed Metals Inc.
- Meeting with Cooperative Extension directors and chairs of county Citizen Advisory Boards
- Alumni reception
- Meeting/dinner with donors

FAST FACTS ABOUT DuBOIS CAMPUS

Founded: 1935

Service area: Cameron, Clarion, Elk, Forest, Jefferson, McKean and Potter counties

CEO: Joseph C. Strasser

Employees: 151 (includes both full- and part-time).

Key programs: Offers 10 associate degree programs, including wildlife technology and materials engineering technology; offers first two years of 180 baccalaureate degree programs offered by Penn State.

Alumni Fellows

Two honored as Fellows by College of Education

The College of Education will welcome two Alumni Fellows into classrooms and offices this week. **John Tippeconnic III**, professor of educational leadership and policy studies, and **Gail Hackett**, director of the Division of Psychology in Education, both at Arizona State University, will meet this week with faculty and students as part of the Alumni Fellows award activities.

Since the beginning of his career in 1966, Dr. Tippeconnic has been intimately involved in Indian education. From his first job as a classroom teacher at Hayes Junior High School in Albuquerque, N.M., to his present position as professor at Arizona State University, he has helped shape the face of education for Native Americans.

Dr. Tippeconnic's career has been varied, including service as vice president of Navajo Community College in Tsaile, Ariz.; education specialist in the Indian Education Resources Center, Bureau of Indian Affairs of New Mexico; and director of the Center for Indian Education at Arizona State University.

Most recently, Dr. Tippeconnic served for several years as the director of the Office of Indian Education Programs within the U.S. Department of the Interior in Washington, D.C.

Along with a B.S. in secondary education from Oklahoma State University, he holds two advanced degrees from Penn State—an M.Ed. and a Ph.D., both in educational administration. In 1992, he was awarded the College of Education Excellence in Education Award.



John Tippeconnic III



Gail Hackett

Dr. Tippeconnic's professional affiliations include editorial service on the *American Indian Culture and Research Journal*; the *Journal of American Indian Education*; NABE, the journal of the National Association for Bilingual Education; and *Emergent Leadership*, along with dozens of book evaluations, chapters and consultations. He is past president of the National Indian Education Association and an active member and committee chair in the American Educational Research Association. He also has been named a Fellow in the Kellogg Foundation Program.

With three degrees from Penn State, Gail Hackett has become one of this country's preeminent

researchers and educators in the study of self-efficacy, particularly as it relates to career development in women.

She currently serves as professor in the counseling psychology program at Arizona State University, and has recently been named director of the Division of Psychology in Education. Previous experiences include teaching positions at the University of California, Santa Barbara and The Ohio State University. While at Penn State, Dr. Hackett served as a counselor in the Career Development and Placement Center. Her three degrees from this University are a B.A. in psychology, an M.Ed. in counselor education and a Ph.D. in counseling psychology.

Dr. Hackett's professional affiliations include the American Counseling Association, American Educational Research Association and editorial service to six professional journals. Her awards include the Counseling Research Award from the AERA; Fellow in the Western Psychological Association, the American Association of Applied and Preventive Psychology, and the American Psychological Association; and the John Holland Award for Outstanding Achievement in Career and Personality Research from the American Psychological Association. She has served on many committees and task forces in all of these professional organizations. She is widely published, including 11 chapters and a book, and several dozen journal articles, reviews, manuals and monographs.

Penn Staters urged to join database of experts

Internet's "Community of Science" allows access to research information

A global database designed to assist industry, university and government laboratories in identifying and locating resources within the scientific and engineering research communities is available to all Penn State faculty and staff who access the Internet.

Anyone with browsing software, such as Mosaic or Netscape, that allows them to peruse the World Wide Web can link to the database at URL <http://best.gdb.org/>. Penn State has a subset location within this database, that gives specific information about research and researchers at the University. It's URL is <http://medoc.gdb.org/work/fields/pennst.html>.

Known as The Community of Science, the database is a registry of researchers, inventions and facilities at leading U.S. and Canadian universities and other research and development organizations. Faculty and research staff are urged to be included in the expert database. Currently, there are 1,396 Penn State faculty and 107 facilities of Penn State listed in the database.

"There are several reasons why a researcher should be included in this database, but a primary reason is because it opens up opportunities for Penn State researchers to be matched with industry representatives who are seeking expertise," Stephen McGregor, program director in the University's Industrial Research Office, said.

The Industrial Research Office administers the Penn State information on the database and uses the system to link requests from private industry for technical assistance, sponsored research and product and manufacturing process developments to Penn Staters.

In addition to allowing industry representatives

"... a primary reason (to be listed) is because it opens up opportunities for Penn State researchers to be matched with industry representatives who are seeking expertise."

— Stephen McGregor
program director
Industrial Research Office

to find expert sources among Penn State's science community, the database provides researchers with collaboration opportunities both internally and externally.

"The information found in the database can help researchers identify others who may be working on

similar projects," Mr. McGregor said. "It also can save time and allow faculty and administrators to be more proactive in matching their research interests with current, available funding opportunities."

The entire Community of Science database, which also lists federally-funded research and possible funding sources, contains more than 40,000 first-person expertise records, 5,000 inventions records and 2,000 facilities records.

University faculty and research staff members interested in adding themselves to the expertise records can do so by accessing the "Add Yourself to the Pennsylvania State University Expertise Database" option under Penn State's URL <http://medoc.gdb.org/work/fields/pennst.html>. Faculty and staff already participating in the system can update their record by using a unique user ID and password that protects listings from unauthorized modifications.

All submissions are reviewed by the Community of Science technical editors and verified by the Industrial Research Office before being added to the database. Additional information and assistance is available by contacting Mr. McGregor at (814) 865-9519 or by E-mail at sims@psuvm.psu.edu.

Highlight on Undergraduate Education

School of Nursing begins exchange program with Swedish university

Students in the School of Nursing now have the opportunity to study abroad. Penn State has approved a student exchange program between the nursing school (part of the College of Health and Human Development) and the University College of Health Sciences in Jönköping, Sweden.

Five Penn State nursing students spent a month studying in Sweden this past spring, and four students from Jönköping are studying at University Park this fall.

"It's an opportunity for our students to examine critical global issues in nursing and health care," Susan Youtz, assistant director of the School of Nursing and author of the exchange proposal, said. "It's also an opportunity for them to have an academic and cultural immersion in Sweden."

The five Penn State students—Monica Morocco, Victoria Prep, Sherry Stofko,

Anne Valentini and Jennifer Valentini—who went to Jönköping this spring, took a course on international perspectives

"It's an opportunity for our students to examine critical global issues in nursing and health care...an opportunity for them to have an academic and cultural immersion..."

— Susan Youtz
assistant director
School of Nursing

tives on aging; met with district nurses; and visited Swedish geriatric rehabilitation and day care centers, nursing homes and group living facilities.

A similar course will be

offered in May-June of next year. In the meantime, Penn State is hosting four Swedish nursing students this fall; the students are taking several clinical and non-clinical nursing courses as well as other Penn State classes.

The exchange program builds on existing collaborations between the College of Health and Human Development and the University College of Health Sciences. Gerald McCleam, Evan Pugh Professor and former dean in the college, has been conducting research with colleagues in the Swedish university's Institute of Gerontology for several years. The director of that institute, Stig Berg, regularly visits Penn State to do research with faculty in several health and human development departments.

In addition, since 1991 the School of Nursing has hosted yearly visits from Jönköping faculty and administrators.

University is gateway to federal documents

The University Libraries has become a gateway providing free access to many of the nation's most important federal documents via an Internet connection or phone call.

The *Congressional Record*, *Federal Register* and Congressional bills databases maintained by the U.S. Government Printing Office (GPO) are now available to off-site users of the electronic Library Information Access System (LIAS) of the University Libraries. Penn State, one of nearly 1,400 federal depository libraries, is offering free public access to the GPO databases as part of an expanding gateway program.

Anyone with a personal computer, a phone modem and telecommunications software may connect from home or office to the GPO Access databases through a depository library gateway. Users may search the databases as frequently as they like, without charge. The full text of documents is available the day of publication.

GPO is working with a select group of depository libraries to develop model gateways for no-fee public access to GPO's databases. Built on existing campus and public networks, the gateway depositories will serve as models for the nationwide depository library system. The first model gateways will help GPO gather data on usage and the technical support requirements for users and the participating libraries.

Penn State joins a growing number of GPO Access gateways. In addition, Purdue University and the University of California at San Diego also offer GPO Access through the World Wide Web.

Local depository libraries, which sponsor the program and assist in supporting users, will connect to GPO through the Internet.

The GPO Access service includes a variety of full-text databases: the *Federal Register*, which includes proposed and final federal regulations and presidential documents as well as meeting and grant notices, the *Congressional Record*, with the activities and debates of Congress dating back to January 1994; the Congressional bills, with all published versions of House and Senate bills beginning with the 103rd Congress; the U.S. Code—public laws dating back to January 1994; and General Accounting Office (GAO) reports. Other databases will be added as they become available.

Users with Internet connectivity may reach LIAS by telnetting directly to LIAS.psu.edu. To establish a modem connection (300-144 baud), users may dial into LIAS at 814-865-5427.

Inquiries about the availability of GPO Access services or instructions on connecting should be directed to Debora Cheney at (814) 863-1345, or E-mail dlc@psulias.psu.edu.

Bookshelf

Eric R. White, director of the Division of Undergraduate Studies and affiliate assistant professor of education, co-edited *Teaching Through Academic Advising: A Faculty Perspective* with Alice G. Reinartz, director of the Undergraduate Advising Center and senior lecturer in the Department of Microbiology, University of Texas at Austin. Published by Jossey-Bass (1995) as part of its "New Directions for Teaching and Learning Series," this collection of essays examines academic advising from a teaching perspective to help faculty advisers appreciate the critical role they play in the student's education.

Several other Penn State chapters contributed

to the publication: James Kelly, senior associate director of the Division of Undergraduate Studies, wrote "Faculty Speak to Advising;" William J. Kelly, associate professor of theatre and integrative arts and professor-in-charge of the Department of Integrative Arts, contributed "Advising in the Arts: Some Thoughts and Observations for Arts Advisers;" and Barbara K. Wade, senior programs coordinator, Division of Undergraduate Studies, College of Agricultural Sciences, and Edgar P. Yoder, professor of agricultural and extension education, wrote "The Professional Status of Teachers and Academic Advisers: It Matters."

25-year Awards



Observing 25 years of service at the University are, from left, Renald Avilion, director of continuing and distance education for the State College Office of Continuing and Distance Education; Dorothey M. Ecklund, administrative assistant, Department of Pediatrics, and Dr. Nicholas M. Nelson, professor of pediatrics, both at The Hershey Medical Center; Patricia Leach, senior extension agent in Indiana County, and Janel Mease, staff assistant in agricultural economics and rural sociology, both in the College of Agricultural Sciences; and Eugene R. Slaski, acting CEO of the Penn State Allentown Campus.

Penn College employees give \$21,000 to annual fund-raiser

The Pennsylvania College of Technology Foundation kicked off its Annual Fund Campaign, which will run through June 30, 1996, with a goal of \$75,000.

This is the foundation's first organized annual fund-raising effort.

Even before the campaign's official kickoff, Penn College employees showed their support for the initiative, with more than \$21,000 pledged. Donors will have the opportunity to designate how their Annual Fund contributions are used. Gifts may be restricted to program initiatives or to the Annual Fund scholarship, which redistributes 100 percent back to students in the form of scholarship money the following year.

The effort will enhance the college's current offering of long-term endowed scholarships.

This year, approximately \$55,000 was awarded in scholarship money. Unrestricted gifts will be used to fund ongoing foundation projects and activities.



A bit of springtime in the fall

Regardless of the weather outside, plants and flowers will be in full bloom inside this weekend. The 82nd Annual Horticultural Show will be held at the Ag Arena on the University Park Campus Saturday, Sept. 30, and Sunday, Oct. 1. The event drew a large crowd last year, and is expected to do so again this year.

Photo courtesy of Agricultural Information Services

Promotions

Staff

Rita R. Andreesen, library assistant II in University Libraries.

Eleanor S. Angert, human resources coordinator in College of Engineering.

Larry D. Baer, assistant chief certified perfumist at The Hershey Medical Center.

Sarah M. Bawel, staff assistant IX in College of Engineering.

Patience J. Bordes, staff assistant IV in College of Agricultural Sciences.

Sherry A. Brennan, research coordinator in Division of Development and University Relations.

Paul K. Canavan, lead physical therapist in Sports Medicine.

Stephanie A. Cates, staff assistant VII at The Hershey Medical Center.

Teresa A. Christian, staff assistant VI at The Hershey Medical Center.

Linda A. Chung, senior technician, Research, at The Hershey Medical Center.

Frank J. Coar, senior designer electromechanical in Applied Research Lab.

John D. Corro, information systems assistant II in Computer and Information Systems.

Telecommunications

Richard A. Cropp, data engineer II in Computer and Information Systems, Telecommunications.

Telecommunications

William G. Curley, director, Business Services/Continuing and Distance Education at Penn State Mont Alto Campus.

Larry S. Dansky, clinical manager, General Medicine, in Student Affairs.

Gina M. Deiter, senior technician, Research, at The Hershey Medical Center.

Bobbi S. DeVore, staff assistant V in University Libraries.

Sheryl A. Disabella, program assistant II at Penn State Hazleton Campus.

Mark Domoto, clinical developmental specialist at The Hershey Medical Center.

Donna R. Duppstadt, administrative Assistant I at The Hershey Medical Center.

Sherry L. Ebersole, staff assistant VI at The Hershey Medical Center.

John C. Eggert, project associate in College of Agricultural Sciences.

Bruce E. Ellis, administrative director, Undergraduate Programs, in The Smeal College of Business Administration.

Edith E. Ericson, senior research supervisor in Research and Graduate School.

Michelle K. Garis, staff assistant VI at The Hershey Medical Center.

Mary E. Gilani, coordinator, Clientele Services, at Penn State Wilkes-Barre Campus.

Jean E. Harris, operations foreman in Business Services.

Michael A. Hill, senior research technologist in College of Earth and Mineral Sciences.

Elaine M. Hopstetter, staff assistant VI at The Hershey Medical Center.

John B. Kalbach, systems engineer II in Computer and Information Systems, Center for Academic Computing.

Nannette M. Kirst, staff assistant VII at The Hershey Medical Center.

Wilbur R. Knecht, foreman, Maintenance and Operations, at Penn State Hazleton Campus.

Nonna Krol, senior applications programmer/analyst in Computer and

Information Systems, Office of Administrative Systems.

Samarra R. Lett, assistant to financial officer I in Corporate Controller's Office.

Joseph H. Meier, assistant director, Information Technology, at The Hershey Medical Center.

Kimberley C. Moore, systems analyst in Computer and Information Systems, Telecommunications.

Joanna J. Moyer, clinical manager in Student Affairs.

Lisa C. Orwig, staff assistant VII at The Hershey Medical Center.

Kimlyn J. Patishnock, financial officer III in Corporate Controller's Office.

Erin Peterson, staff assistant VI in College of Engineering.

Nancy C. Resnick, social worker II at The Hershey Medical Center.

Donna M. Roseberry, staff assistant VII in Office of The President.

Douglas H. Schaeffer, senior project associate in College of Agricultural Sciences.

Debra E. Sheaffer, conference coordinator in College of Agricultural Sciences.

Barby A. Singer, staff assistant V in Office of The President.

Joel S. Steel, senior extension associate in College of Agricultural Sciences.

David R. Stinebring, research engineer at Applied Research Lab.

Dawn L. Strickler, staff assistant VI at The Hershey Medical Center.

Timothy C. Summers, senior micro-computer system consultant in Computer and Information Systems, Center for Academic Computing.

Ellen M. Taricani, office information specialist in College of Agricultural Sciences.

Patricia L. Tate, staff assistant VI in Applied Research Lab.

Erin D. Weaver, staff assistant IV in Housing and Food Services.

Mary R. Wile, assistant director, Annual Giving, in Division of Development and University Relations.

Marcia K. Williamson, staff assistant VI at The Hershey Medical Center.

Christina R. Willusz, senior technician specialist in Research and Graduate School.

Pamela S. Wolgemuth, buyer II at The Hershey Medical Center.

Tech Service

Timothy E. Bruce, janitorial worker in Housing and Food Services at Penn State Altoona Campus.

Linda D. Copley, media and sterilization attendant group leader at The Hershey Medical Center.

Lori L. Cramer, janitorial worker in Office of Physical Plant.

Richard L. Ertley, preventative maintenance worker in Office of Physical Plant.

Steven F. Flick, lead groundskeeper, Golf Course, in Intercollegiate Athletics.

Harvey R. Hoffman, maintenance worker, Fire Extinguisher, in Office of Physical Plant.

LeRoy M. Inhoff, maintenance worker A in Office of Physical Plant.

Bryan D. Kinsey, group leader, Landscape A, at Penn State Berks Campus.

Robert L. Laird, janitorial worker in Office of Physical Plant.

Patricia D. Miller, operator B, Centralized Copy Center, in Business Services.

Penn Staters

Ram B. Bhagat, associate professor of engineering science and mechanics, presented a paper at the 7th Japan-U.S. Conference on Composite Materials, sponsored by the Japan Society for Composite Materials, at Doshisha University in Kyoto. His paper, co-authored by graduate student **A. Sinaray**, was "Design and Analyses of Multilayered Graded Interphase in Titanium Matrix Composites." Dr. Bhagat also chaired the session on Ceramic Matrix Composites.

Leonid Beryland, assistant professor of mathematics, presented an overview of his research at an international conference in Nice, France, titled "Eur Homogenization: Homogenization and Applications to Materials Science." Dr. Beryland was one of the four principal speakers representing the United States.

John M. Cimbala, associate professor of mechanical engineering, spent the summer at NASA Langley Research Center under a 1995 ASEE Summer Faculty Fellowship. Dr. Cimbala is performing direct numerical simulations of a turbulent far wake.

Daniel Conway, associate professor of philosophy, presented an invited paper to the Nietzsche Society of Great Britain, at the University of Hertfordshire, Watford, U.K. His paper, titled "Nietzsche's Dangerous Game," previewed the major themes of his forthcoming book under the same title, to be published in 1996 by Cambridge University Press.

Cheng Dong, assistant professor of bioengineering, has been selected to receive the 1995 Y.C. Fung Young Investigator Award by the American Society of Mechanical Engineers.

The award recognizes Dr. Dong's innovative and strong research and publication record. Dr. Dong is an expert in the biomechanics of biological tissues and in blood and blood cell rheology.

Wolfgang E. Ernst, professor of physics, recently presented two lectures while visiting Germany and Italy.

In Germany, Dr. Ernst presented a colloquium titled "Laser Spectroscopy of Molecules, Clusters and Surfaces" at the University of Rostock; he also attended the 12th International Conference on Laser Spectroscopy in Capri, Italy. His invited lecture there was titled "Spectroscopy of Alkali Atoms and Molecules Attached to Highly Quantum Clusters."

Richard Fitzsimmons, associate librarian at the Penn State Worthington Scranton Campus, gave a presentation at the Baltic Studies Conference, "Small Nations and States," co-sponsored by the Latvian Academy of Sciences and held at the University of Latvia in Riga, Latvia.

The title of Mr. Fitzsimmons' presentation was "Administrative

Philosophies of Library Programs. Collections and Services via Technology."

Alireza Haghighat, associate professor of nuclear engineering, and graduate students **John Wagner**, **Bojan Petrovi** and **Heath Hanshaw** received the "Best Benchmark Paper Award" at the International Conference on Mathematic Computations, Reactor Physics and Environmental Analyses for their paper "Benchmarking of Synthesized 3-D S₂ Transport Methods for Pressure Vessel Flow Calculations with Monte Carlo." Dr. Haghighat also presented an invited paper titled "S₂ Particle Transport Methods on Distributed Memory IBM SP1" at the Summer Computer Simulation Conference in Ontario, and another paper and a seminar at the 1995 XENFIR/III ENAN Joint Conferences, in Agas de Lindoia, Brazil. The paper was co-authored by **Ronald E. Mattis**, University of Pittsburgh, and **Melissa A. Hunter**, a doctoral candidate in nuclear engineering.

Elizabeth Hanley, assistant professor of exercise and sport science, has been appointed to a two-year term as U.S. representative to the International Olympic Academy Alumni Association.

Loukas Kalisperis, associate professor of architecture in the College of Arts and Architecture's Department of Architecture, has been named technical chair for the international ACADIA '95 conference to be held at the University of Washington at Seattle in October. ACADIA, the Association for Computer Aided Design in Architecture, provides a forum for the presentation and discussion of innovative application and integration of computer technology in architectural education and practice. Dr. Kalisperis also was named guest editor for the journal *Automation in Construction*, published by Elsevier Publishing, Switzerland.

Pierre Kerszberg, associate professor of philosophy, is the winner of the 1995 Arnold Raymond Prize for the best book in philosophy of science over the last 10 years. The book is *The Invented Universe*, published by Oxford University Press, 1989.

Edward H. Kleivans, professor and department head, Nuclear Engineering Department, has been appointed chair of the Education and Training Division of the American Nuclear Society.

John Lennox, associate professor of microbiology at the Penn State Altoona Campus, was selected to receive the two-year college Biology Teaching Award sponsored by the C.V. Mosby Publishing Co. and the National Association of Biology Teachers. The award recognizes excellence in two-year college biology instruction.

Three members of the Department of Materials Science and Engineering have been elected as Fellows of the Electrochemical Society.

Digby D. Macdonald, professor of materials science and engineering and director of the Center for Advanced Materials, was cited for his "wide range of theoretical and experimental contributions to electrochemistry and the applications of the science and technology to corrosion and battery research."

Howard W. Pickering, Distinguished Professor of metallurgy, was honored for his "contributions to the understanding of corrosion processes and long-time contributions to the journal and to the society."

Karl E. Spear, professor of ceramic science, was named in recognition of "his work in...understanding the high-temperature behavior of dynamically reacting heterogeneous systems."

Robert E. Newnham, Alcoa Professor of solid state science at the Intercollege Materials Research Laboratory, presented an invited lecture on "Structure-Property Relationships in Sensors and Actuators" at the annual meeting of the American Crystallographic Association, in Palais des Congress, Montreal. He also completed a lecture tour of Germany under sponsorship of the Alexander von Humboldt Society. This summer he visited the Max-Planck-Institute at Stuttgart, the Fraunhofer Institute for Ceramics Research at Dresden, the Freiberg Mining Institute in Freiberg, and the Daimler-Benz Aerospace groups in Friedrichshafen and Ulm, where lectures were given on "Ceramic Sensors and Actuators."

M. Nouri, professor of mathematics, visited England, (Cambridge, London and Oxford University) where he presented a paper and lectured in the First International Conference on the Mathematics of Neural Networks and Applications.

Ganapati P. Patil, distinguished professor of mathematical statistics and director of the Center for Statistical Ecology and Environmental Statistics, is editor of the journal *Environmental and Ecological Statistics*. According to its publishers, the journal is of interest to environmental scientists, ecologists, statisticians, and anyone interested in the collection and evaluation of environmental and ecological data. It is published by Chapman & Hall of London, England.

Jorge Pullin, assistant professor of physics and a researcher in the Center for Gravitational Physics and Geometry at Penn State, recently presented a lecture during the 6th Canadian Conference on General Relativity and Relativistic Astrophysics, held in Fredericton, New Brunswick, Canada. The title of his lecture was "Colliding Black Holes: Surprising Success of Linearized Theory."

Spiro Stefanou, associate professor of agricultural economics, presented a series of lectures on productivity, innovation and technical change as visiting research professor at Wageningen Agricultural University in The Netherlands and as visiting professor of economics at the Institute for Advanced Studies in Vienna, Austria.

Bernhard Tittmann, Schell Professor in engineering science and mechanics, gave invited lectures at two international conferences. He spoke on "Ultrasonics Sensors for Process Monitoring and Control" at the International Conference on Acoustics and Ultrasonics in Gdansk, Poland; and gave an invited presentation on "High Temperature Applications of Ultrasonics and Acoustic Emissions" for the Advanced School on Sensors for Process Monitoring and Quality Control, in Alberta, Canada.

Marcus H. Voth, professor of nuclear engineering and director of the Radiation Science and Engineering Center, presented a paper on "Effects of Aging on U.S. University Research Reactor Programs" at the International Atomic Energy Agency in Hamburg, Germany.

Dr. Voth, who chairs the University Reactor Support Committee of the National Organization of Test, Research and Training Reactors, also served as the U.S. representative for university research reactors and a panelist at an agency seminar on "Management of Aging of Research Reactors."

Steven M. Weinreb, Russell and Mildred Marker Professor of natural products chemistry and head of the Department of Chemistry, recently presented two international plenary lectures.

In Taiwan, Dr. Weinreb attended the 15th International Congress of Heterocyclic Chemistry and presented a lecture titled "Synthetic Applications of a Novel Pericyclic Imine Enone Reaction of Allenyl Salts." While in Hong Kong, he gave a talk titled "New Methods for Alkaloid Total Synthesis" at the Hong Kong International Symposium on Heterocyclic Chemistry.

Paul S. Weiss, associate professor of chemistry, has been selected to serve on the Defense Science Study Group, a program of education and study directed by the Institute for Defense Analyses (IDA) and sponsored by the Advanced Research Projects Agency (ARPA).

Robert Yarber, assistant professor of art in the College of Arts and Architecture's School of Visual Arts, had a one-person exhibition, "Robert Yarber Recent Paintings," at the Patricia Faure Gallery in Santa Monica, Calif.

The Arts

AT PENN STATE

Faculty composers to give concert Oct. 1

Homebrew, a concert of music by School of Music faculty composers, will be presented at 4 p.m. Sunday, Oct. 1, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Newcomer Paul Barsom's "On Imminent Rays" for cello and piano will be performed by Kim Cook and Carl Blake. **Burt Fenner's** "The Sprightly Companion" for oboe and electronic tape will be presented by **Timothy Hertz**. Mr. Hertz will also perform Alex Hill's "Five Ballet Exercises (for Andrea)." Homebrew will conclude with a performance by Jan Wilson, mezzo-soprano, singing **Bruce Trinkle's** frothy "Songs for the End of the Recital," with **Robert Long**, piano. This presentation reviews a long-standing Penn State music tradition of faculty composer concerts.

The recital is free to the public.

"Terrestrial Bodies"

"Terrestrial Bodies," an exhibition featuring an eclectic group of 13 New York City artists, will be on display in Zoller Gallery on the University Park Campus from Sunday, Oct. 1, through Sunday, Nov. 5.

The artists featured in the exhibition together as "figurative painters." Artists included are: Chuck Agro, John Bowman, Peter Drake, Saxton Freymann, Eric Holzman, Catherine Howe, Kate Kuharic, Elizabeth Olbert, Michael Peglaw, Chris Plister, Peggy Preheim, Thomas Woodruff and Brenda Zlamany.

This event is sponsored by the Institute for Arts and Humanistic Studies, the College of Arts and Architecture School of Visual Arts and the Pennsylvania Council on the Arts.

Zoller Gallery is located in the Visual Arts Building, and is open 9 a.m. to 5 p.m. Monday through Friday; 11 a.m. to 4:30 p.m. Saturday; noon to 4 p.m. Sunday.

The exhibition is free to the public.

Centre Dimensions to perform Oct. 2

Centre Dimensions, Penn State's jazz ensemble, will present a concert of big band jazz at 8 p.m. Monday, Oct. 2, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. The group is directed by School of Music faculty member Dan Yoder.

The concert will be guest directed by John Daniel, also a member of the School of Music faculty. The concert

will feature compositions by John Daniel, Thad Jones, George Gershwin, Ed Sarath, Robert Selander and Dan Yoder's arrangement of "The Song is You." Mr. Daniel, as well as members of the band, will be featured as soloists.

The concert is free to the public.

Essence of Joy

Essence of Joy, a group of 40 singers directed by **Anthony Leach**, instructor in the College of Arts and Architecture School of Music, will perform for the Bach's Lunch concert on Thursday, Oct. 5, at 12:10 p.m. in the Helen Eskin Eisenhower Chapel on the University Park Campus.

Mr. Leach organized Essence of Joy in 1991 to perform for the annual Forum on Black Affairs Martin Luther King Jr. banquet. The group's repertoire emphasizes traditional and contemporary gospel music from the African-American culture. Essence of Joy also performs secular music from this venue.

The group has performed for campus religious organizations and local churches.

The Oct. 5 concert will include three selections by Glenn Burleigh: "Everybody Rejoice" by Kenneth Louis; "Lift Him Up" by David Curry; and "Anticipation" by Michael McKay.

The Bach's Lunch series is sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish. The program is open to the public.

Caribbean jazz

The Caribbean Jazz Project will perform at 8 p.m. Thursday, Oct. 5, in Eisenhower Auditorium on the University Park Campus.

The performance, which opens the Cool Heat series, is sponsored by the College of Arts and Architecture Center for the Performing Arts.

The sextet features **Paquito D'Rivera** on saxophone and clarinet, **Dave Samuels** on vibes/marimba, and **Andy Narell** on steel drums. They are backed by a three-piece rhythm section composed of piano, bass and drums.

Mr. D'Rivera, with more than 15 albums in his discography, was a founding member of Dizzy Gillespie's United Nations Orchestra and has received a lifetime achievement award from Carnegie Hall.

Mr. Samuels has been a member of the fusion group Spyro Gyra since its conception in 1977 and has played with such diverse acts as Chet Baker and Pink Floyd.



The Modern Mandolin Quartet will perform at noon on Oct. 6 in the Wintergarden atrium of the Reed Union Building at Penn State Erie, The Behrend College.

Photo: Cathy Gould

Mr. Narell has honed the skill of steel pan, and was named "Best Miscellaneous Jazz Instrumentalist" in 1990's Jazztime Critics' Poll. He has six solo albums to his credit.

Tickets for the Oct. 5 performance are \$17 for non-students; \$13 for students.

For ticket information, contact the Center for the Performing Arts ticket center, open 8:30 a.m. to 4:30 p.m. Monday through Saturday, (814) 863-0255. Outside the local calling area phone (800)ARTS-TIX.

Depression-era prints

An exhibit of prints depicting the coal industry in eastern Pennsylvania during the Great Depression is being held in Pattee Library's West Lobby Gallery through Oct. 31. The display gathers works from the College of Earth and Mineral Sciences' Steidle Art Collection and Pattee Library's Fine Prints Collection.

The prints were produced in the late 1930s by **Michael J. Gallagher**, an artist from Scranton. Mr. Gallagher worked for the Works Progress Administration before the outbreak of World War II. His prints capture the harsh reality of the miner's work and the dreariness of life in Pennsylvania's coal towns.

The display was assembled by **Eric J. Schruers**, a doctoral candidate in the Art History Department. Mr. Schruers is preparing a catalog of the Steidle Collection that will be published in conjunction with the fall 1996 exhibit of the collection's paintings at the Palmer Museum of Art.

Musical performance at Behrend Oct. 3

The music of Cecilia's Circle, highlighting the works of female composers of the Baroque era, will be featured after the Madrigal dinner at Penn State Erie, The Behrend College, on Tuesday, Oct. 3. Admission to the 8 p.m. performance, which will be held in the Dobbins Hall gazebo, is free.

The ensemble, named for the

patron saint of music, is known for its fresh approach to long-forgotten manuscripts written by women. Using the harpsichord, violin, viola da gamba, baroque cello and their voices, the four women of Cecilia's Circle have a repertoire which also includes medieval chants, troubadour songs and dance.

For more information about the performance or the Madrigal dinner, contact the Office of Student Activities at (814) 898-6171.

Slick Moves at Behrend

Physical comic Dan Kamin brings his usual blend of comedy, stunts and tricks to Penn State Erie, The Behrend College at 8:30 p.m. Friday, Oct. 6. The performance, which is free to the public, will be held in Bruno's Night Club on campus in the Reed Union Building.

Mr. Kamin has performed at both the White House and Lincoln Center and is known for the physical comedy routines he created for Johnny Depp in *Benny and Jon*, and Robert Downey Jr. in his Oscar-nominated role as *Chaplin*.

Behrend's Wintergarden Series

Penn State Erie, The Behrend College announces the sixth season of its popular series, Music at Noon: The Logan Wintergarden Series. The series, made possible through a grant from the Harry A. Logan Jr. Foundation, is designed to expose audiences to classical music in an informal setting.

All of the concerts, which take place at noon in the Wintergarden atrium of the Reed Union Building, are free to the public. Audience members are encouraged to bring a brown-bag lunch. Scheduled to perform this year are:

- The Modern Mandolin Quartet, Friday, Oct. 6. Winner of a 1995 National Endowment for the Arts grant, the quartet is frequently heard on National Public Radio's "Weekend Edition" and "Performance Today."

- The Kandinsky Trio, Tuesday, Oct. 24. The group debuts its new "Tales of Appalachia" performed with storyteller **Connie Regan-Blake**. "Tales" is arranged by two-time Grammy winner **Mike Reid**.

- Ethos Percussion Group, Monday, Nov. 13. Whisker sounding the Oodiko giant drums pounded by madmen to signal the beginning of battle — or stroking a temple block — a drum in the shape of a fish to symbolize wakeful attention — Ethos entertains and educates.

- New Arts Six, Thursday, Feb. 29. Six women dedicated to performing African-American music, poetry and literature.

- Brentano String Quartet, Wednesday, March 27. Winner of the 1995 Naumburg Chamber Music Award, the world-class quartet has been featured on "Great Performers at Lincoln Center."

- Meridian Arts Ensemble, Tuesday, April 16. The eclectic ensemble will present musical selections spanning six centuries.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, September 28

The Center for Women Students, noon, 120 Boucke Bldg. Sabrina C. Chapman on "PSU History: Past, Present and Future."

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Basson Ensemble.

Friday, September 29

Palmer Lecture, 1:30 p.m., Palmer Lipcon Auditorium. Glenn Williamson on "Photography Since World War II."

■ Gallery Talk, 3 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "African Headrests."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Roger Downs on "Geopolitics: The Politics of Geography Education."

School of Music, 8 p.m., Eisenhower Auditorium. Penn State Philharmonic.

Saturday, September 30

82nd Annual Horticultural Show, Ag Arena. Through Oct. 1.

Office for Minority Faculty Development Workshop, 9 a.m., 114 Kern Bldg. Hector Flores on "Publishing." Call Mary Leone at 863-1663 by Sept. 26 to participate.

Sunday, October 1

■ Palmer Film, 2 p.m., Palmer Lipcon Auditorium. "Africa: The King and the City."

School of Music, 4 p.m., Recital Hall. Penn State Faculty Composers' Concert.

Monday, October 2

■ Comparative Literature, 12:15 p.m., 101 Kern Bldg. Thomas Hale on "The Roots of the Term 'Griot'."

School of Music, 8 p.m., Recital Hall. Centre Dimensions.

Thursday, October 5

Bach's Lunch, 12:10 p.m., Eisenhower Chapel.

Nelson W. Taylor Distinguished Lectures, 4 p.m., 112 Kern Auditorium. Thomas Eagar on "Whither Advanced Materials and the Future of Metals."

■ Center for the Performing Arts, 8 p.m., Eisenhower Chapel. Caribbean Jazz Project. Call 863-0255 for tickets.

Friday, October 6

■ Gallery Talk, 2 p.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "African Art at the Palmer Museum."

Nelson W. Taylor Distinguished Lectures, 3 p.m., 112 Kern Auditorium. Thomas W. Eagar on "The Science of Welding and Joining Processes."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Gregory Elmes on "Uncertainty in a Decision Support System: Outwitting the Wily Gypsy Moth."

University Resident Theatre Company, 8 p.m., Pavilion Theatre. "Tamer of Horses," by William Mastrosimone. Through Oct. 14. For tickets call 863-0255.

Saturday, October 7

■ Gallery Talk, 11:30 a.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "African Headrests."

Sunday, October 8

■ Film, 2 p.m., Palmer Lipcon Auditorium. "Africa: The Bible and the Gun."

Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. "Pippi Longstocking," American Family Theatre. For tickets call 863-0255.

School of Music, 8 p.m., Recital Hall. Susan Boardman, soprano.

SEMINARS

Thursday, September 28

Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. John Friedman on "Two Component Spinors on Time Non-Orientable Spacetimes."

Friday, September 29

Economics, 3:30 p.m., 123 Chambers Bldg. Michael P. Keane on "The Career Decisions of Young Men."



"Terrestrial Bodies," featuring 13 New York City artists, will be on display Oct. 1 through Nov. 5 at Zeller Gallery on the University Park Campus.



Wooden birdhouses by Vicki Sellers are on display through Oct. 24 in the Kern Exhibition Area on the University Park Campus.

Aerospace Engineering, 3:35 p.m., 215 Hammond Bldg. Benhe Qu on "Deployment Dynamics of a Dumbbell Satellite."

Agronomy, 3:35 p.m., 101 ASI. Egidio Nizeyimana on "Characteristics of Soils with Variable Charge."

Philosophy, 4 p.m., 124 Sparks Bldg. Shannon Duval on "Wittgenstein and the Future of Philosophy."

Tuesday, October 3

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Donald L. Koch on "What Is So Puzzling About Hydrodynamic Diffusion?"

Biology, 4 p.m., 8 Mueller Lab. Austin Hughes on "Disease and Evolution: Natural Selection at the Major Histocompatibility Complex Loci of Vertebrates."

Geosciences, 4 p.m., 26 Hosler Bldg. Rob van der Voo on "From Rodinia to Pangaea: The Paleozoic Wilson Cycle."

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Sujatha Sundaram on "An Immunoregulatory Properties of Allyl Sulfur Compounds in Garlic."

Wednesday, October 4

Gerontology Center, noon, 101 H&H Bldg. East. W. Larry

Kennay on "Effects of Aging on Regulation of Temperature and Body Fluids in Hot Environments."

Accounting Research, 3:30 p.m., 333 Brian Bldg. Christopher Iltner on "The Choice of Performance Measures in Annual Bonus Contracts."

Friday, October 6

Agronomy, 3:35 p.m., 107 ASI. Scott Harckom on "25 Years of Crop Rotation Research."

CONFERENCES

Friday, September 29

PA Ceramics, 40 attendees, Penn State Scanlon. Through Sept. 30.

Thursday, October 5

Strategies for Successful Education of Health Care Providers, Penn State Scanlon. For information call 863-5120.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m.

"Performance Today," Mon.-Fri., 9-11 a.m.

"All Things Considered," Mon.-Fri., 5-7 p.m.; Sat.-Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m.

"Fresh Air with Terry Gross," Mon.-Fri., 4-5 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein," Weds., 7 p.m.

"Car Talk," Fri., 7 p.m. and Sun., 6 p.m.

"Living On Earth," Mon., 7 p.m.

"Piano Jazz with Marion McPartland," Mon., 8 p.m.

"Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

HUB Browning Gallery:

Oil paintings by Joanne Landis, through Oct. 22. Paintings consist of abstract impressionism full of round female forms in vivacious colors.

HUB Formal Gallery:

Paintings by Frank Diaz Escalante, through Oct. 21. Paintings reflect lifetime experiences.

HUB Reading Room:

■ "Aerial Archaeology from the Air," 25 placarded aerial photographs of major Israeli sites, in honor of Jerusalem's 3,000-year anniversary, through Oct. 5.

Kern Exhibition Area:

Wooden birdhouses by Vicki Sellers, through Oct. 24. Jewelry by Shirley Greenleaf, through Oct. 15. Jewelry is made of fine porcelain.

Photography of Genevieve Durang, through Oct. 24.

Palmer Museum:

"Psalms," non-objective paintings by West Coast painter John McDonough, through Oct. 1.

■ "Sleeping Beauties: African Headrests from the Jerome L. Joss Collection at UCLA," through Dec. 3.

"Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

Zeller Gallery:

"Terrestrial Bodies," Oct. 1 through Nov. 5. Features an eclectic group of 13 New York City artists.

■ Reflects an international perspective

TIPS

Information Penn State

Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather — 234; Arts Line — 345; University Calendar — 456.

LECTURES

Indiana University professor leads off cognition lectures

The originator of a new theory of human development, **Esther Thelen**, professor of psychology at Indiana University, will present a lecture, "The Central Role of Movement in the Development of Perception and Cognition," at 4 p.m. Thursday, Oct. 12, in 101 Kern on the University Park Campus.

According to Dr. Thelen, development is a nonlinear, dynamic process. Her model is based on her own pioneering observations of the development of infant perceptual-motor behavior.



Esther Thelen

Dr. Thelen is president-elect of the International Society for Infant Studies and co-author of *A Dynamic Systems Approach to the Development of Cognition and Action* (MIT Press, 1994). Her talk is the first of four in a Distinguished Cognitive Speakers Series to be held at University Park this academic year.

The series is made possible through a grant from the Research and Graduate Studies Office of the College of the Liberal Arts.

SmithKline president featured at first Russell S. Marker lecture

George Poste, president and chairman of research and development at SmithKline Beecham Pharmaceuticals, will deliver the first Russell S. Marker Lecture in Molecular Medicine on Friday, Oct. 6, at 4 p.m. in 104 Keller Conference Center on the University Park Campus.

His lecture, titled "Genomics and the Evolution of Molecular Medicine," is sponsored by the Eberly College of Science and is open to the public. A reception for the speaker will begin at 3:30 p.m. in 104 Keller Conference Center.

Dr. Poste has been credited for inaugurating the collaboration between SmithKline and the Human Genome Science Corporation (HGS), which has led to the first nearly complete database of expressed human genes, some 86,000 in number.

In addition to his position with SmithKline Beecham Pharmaceuticals, Dr. Poste is a research professor of pathology and laboratory medicine at the University of Pennsylvania, a research professor of cell biology at

the University of Texas, M. D. Anderson Cancer Center in Houston and a member of the board of SmithKline Beecham Corp.

He was educated in England, where he received a doctorate in veterinary medicine in 1966 and a doctorate in physiology in 1969 from the University of Bristol.

Dr. Poste joined SmithKline & French Laboratories in 1980 and held several senior research and development posts before the merger of SmithKline Beecham and Beecham Pharmaceuticals in 1989. In 1992 he was appointed to his current position and also to the board of directors of SmithKline Beecham Corp.

Dr. Poste, a board-certified pathologist, has published more than 290 scientific papers and has coedited 15 books, primarily in the fields of cancer research and drug delivery. He is coeditor of the journals *Cancer and Metastasis Reviews* and *Advanced Drug Delivery Reviews* and past chairman of the editorial board of the journal *BioPharmaceuticals*.

Sociology lecture in Harrisburg Oct. 18

Alan Booth, professor of sociology, will discuss "Where is the American Family Headed and What Does It Mean?" from noon to 1 p.m. Wednesday, Oct. 18 at the Penn State Harrisburg Eastgate Center.

The talk, free to the public, will describe long-term and current trends with respect to marriage delay, cohabitation, divorce, remarriage, single mothers and non-marital childbearing.

The implication of these trends for the well-being of adults and children will be highlighted, as well as a review of some of the factors that might affect the course of current trends. The session will conclude with a discussion about the impact of current and proposed policy.

To ensure adequate seating, registration is necessary. Call the center at (717) 772-3590.

Continuing education policy symposium at Scanticon

Continuing and distance education administrators and academic administrators from 20 higher education institutions nationwide will meet at The Penn State Scanticon on Oct. 1-3 to draft model policy statements designed to create a positive, supportive culture for distance education in institutions of higher education.

This is the first of three annual policy symposiums planned at Penn State as part of the three-year AT&T Foundation-funded Innovations in Distance Education project.

The symposium, aimed at eliminating institutional policy barriers, is a component of the \$300,000 first-year grant from AT&T that also supports a University-wide faculty project to develop pedagogical principles for distance education.

Penn State invited the presidents of the Committee on Institutional Cooperation (CIC) and historically Black institutions, including Cheyney and Lincoln universities, to participate in the symposium.

The symposium will focus on administrative and financial policy issues affecting distance education, as determined by a Delphi study conducted among all participating institutions. Other areas of concern to be

addressed in the future include faculty incentives and rewards and curriculum policies.

The symposium format will involve a series of group sessions, where participants will identify key policy issues affecting distance education, evaluate options, develop model policy statements and recommend future steps to be taken. Participants also will establish an ongoing network to facilitate communication about policy changes in distance education.

Symposium results will be published in the American Center for the Study of Distance Education's *American Journal of Distance Education*.

Participating institutions are: Cheyney University, Coppin State College, Hampton University, Indiana University, Bloomington, Lincoln University, Michigan State University, North Carolina A&T State University, Northwestern University, Penn State, Purdue University, Spelman College, Tennessee State University, The Ohio State University, University of Chicago, University of Illinois, Urbana-Champaign, University of Iowa, University of Michigan, University of Minnesota, University of Wisconsin-Madison and Xavier University of Louisiana.

Series highlights human development intervention

Three distinguished researchers in the field of developmental intervention will present lectures at the University Park Campus this fall, as part of the Edna P. Bennett Lecture Series on human development intervention.

The series, sponsored by the Department of Human Development and Family Studies in the College of Health and Human Development, will highlight contemporary advances in methods for enhancing individual development and family functioning.

Funding for the series comes from an endowment established by Penn State alumni **Edna P. and C. Eugene Bennett**. The main purpose of the Bennetts' \$1.5 million gift is to establish the Edna P. Bennett Endowed Chair in Intervention Research in the Department of Human Development and Family Studies.

Speakers in this fall's lecture series include:

■ "Development and Evaluation of a Theory Driven Prevention Program for Children of Divorce," presented by **Irwin Sandler**, professor of psychology, Arizona State University, 4 p.m. Monday, Oct. 9, 301 Hetzel Union building.

■ "Remembering to Take Medications: Development of Successful Interventions," presented by **Denise Park**, professor of psychology, University of Michigan, 4 p.m. Monday, Oct. 23, 301 Hetzel Union building.

■ "School-based Programs to Promote Social Competence and Prevent High-Risk Behavior," presented by **Roger Weissberg**, professor of psychology, University of Illinois at Chicago, 4 p.m. Monday, Nov. 13, 301 Hetzel Union building.

The Department of Human Development and Family Studies is internationally known for interdisciplinary programs that promote healthy development of families and individuals.

It has scholars in psychology, sociology, anthropology and the medical sciences, and is rated among the nation's best in life span development, family studies and developmental research methodology.

Each lecture in the Edna P. Bennett Lecture Series will be preceded by a reception at 3:30 p.m.

For more information, contact **Sheila Bickle**, (814) 863-0241, or sabl10@psu.edu.

More Lectures

Future of metals is topic of Taylor distinguished lectures

Thomas W. Eagar, head of the Department of Materials Science and Engineering at the Massachusetts Institute of Technology, will visit the University Park Campus Oct. 5 and 6 to present the Nelson W. Taylor Distinguished Lectures, a series sponsored by the Department of Materials Science and Engineering in the College of Earth and Mineral Sciences.

Dr. Eagar, who is known widely for his work on the joining and bonding of materials, particularly the welding of metals, will speak on "Whither Advanced Materials and the Future of Metals" at 4 p.m. Oct. 5, in 112 Kern Auditorium and on "The Science of Welding and Joining Processes" at 3 p.m. Oct. 6, in 112 Kern Auditorium.

Throughout his distinguished 20-year career, Dr. Eagar has been a member of the MIT faculty. In 1990 he was named the Richard P. Simons Professor of metallurgy and in 1993, the POSCO Professor of materials engineering. He served as director of the



Thomas W. Eagar

MIT Materials Processing Center from 1991-1993, and was named department head in 1995.

Among Dr. Eagar's many honors are the Charles H. Jennings Memorial Medal, the Warren F. Savage Award, the William J. Harrington Award, and the William Spragaren Award of the American Welding Society, the Henry Marion Howe Medal of ASM International and the Champion H. Mathewson Gold Medal of TMS-AIME.

He served as Houdremont Lecturer of the International Institute of Welding in 1990, and as the Comfort A. Adams Lecturer of the American Welding Society in 1993.

Dr. Eagar is a Fellow of ASM International and of the American Welding Society and a registered professional engineer. He serves as a member of the National Research Council Committee on Unit Manufacturing Process Research, and the Panel for the NIST Materials Science and Engineering Laboratory, and as a committee member and adviser of the Welding Research Council, the Edison Welding Institute and the American Welding Society. He is a member of the advisory and technical review board for *Materials Technology*.

The Taylor Distinguished Lecture Series was established in 1965 to honor the memory of Nelson W. Taylor, head of the Department of Ceramics from 1933 to 1943. The series has consistently attracted scientists and engineers of the highest calibre to discuss their work.

Department of Comparative Literature lunchtime lecture series to begin Oct. 2

A lunchtime program, sponsored by the Department of Comparative Literature, is being held this fall on Mondays from 12:15 to 1:20 p.m., in 101 Kern Graduate Building on the University Park Campus.

Participants can buy lunch in the Kern cafeteria, or bring their own. Coffee and tea are provided.

The program schedule follows:

■ Oct. 2: **Thomas Hale**, professor of African, French and comparative literature, discusses "The Roots of the Term 'Griot'."

■ Oct. 9: **Robert Lima**, professor of Spanish and comparative literature, talks about "Eye of the Beholder: Poems and Photographs."

■ Oct. 16: **Linda Ivanits**, associate professor of Russian and comparative literature, discusses "Superstition in the 19th Century Russian Novels."

■ Oct. 23: **Kang Liu**, assistant professor of

comparative literature and Chinese, speaks on "Cultural Studies in Contemporary China."

■ Oct. 30: **Alan Knight**, professor of French, talks about "Faded Pageant: The End of the Mystery Plays in Lille."

■ Nov. 6: **Susan Scaff**, assistant professor of comparative literature, discusses "Thomas Mann and Music."

■ Nov. 20: **Davida Charney**, associate professor of English, discusses "Students; Epistemologies."

■ Nov. 27: **Don Kunze**, associate professor of architecture and integrative art, talks about "The Electronic Text and Comparative Literature."

■ Dec. 4: **Richard Kopley**, associate professor of English, discusses "Poe's 'Tell-Tale Heart' in Hawthorne's 'Scarlet Letter'."

Xerox Awards Day lecture planned for Oct. 4

Mark Myers, senior vice president for corporate research and technology at Xerox Corp., will speak at 10:30 a.m. Wednesday, Oct. 4, in 189 Materials Research Laboratory, as part of the 19th Annual Xerox Awards Day, where doctoral and master's degree candidates and their advisors are honored for their research efforts.

Dr. Myers is part of the seven-member corporate office responsible for leadership and strategic direction of the company.

He is responsible for worldwide research and

technology, including the corporate research centers, architecture and standards, advanced technology and competency development and new markets exploration and development.

Since joining Xerox in 1964, he has held a variety of research and engineering positions. He was named to his current position in 1992.

Dr. Myers holds a bachelor's degree from Earlham College and a doctorate in materials management from Penn State.

The event is open to the public.

Child Development Lab open house set

The Child Development Laboratory, which has provided day care on the University Park Campus for hundreds of young children over the past 66 years, is holding an open house in October.

The open house will be held from 10 a.m. to 2 p.m. Saturday, Oct. 14, during Fall Alumni Weekend. Coordinator **Linda Duerr** and current staff members will be on hand, and organizers will have displays and activities highlighting the CDL's multiple roles: a high-quality early childhood program, a setting for research and a site for the education of undergraduate and graduate students.

Alumni who worked in the CDL when they were students have been invited to the open house, and the public is welcome as well.

The lab, part of the College of Health and Human Development, was officially established in 1929 as the Pennsylvania State College Nursery School, and was located in the former Sparks House on the northern part of campus.

It has been in continuous existence since 1948, making it the longest operating preschool in State College and among the oldest laboratory preschools in the nation.

Today the preschool — now called the Child Development Laboratory — is located on the ground floor of Henderson Hall, Suite South.

Adjacent to it is a playground donated in 1990 by University graduates **Edna Peterson Bennett** and **C. Eugene Bennett**.

The CDL, operated by the Department of Human Development and Family Studies, currently serves 38 children ages 3 to 6.

It recently announced plans to add a classroom to serve infants and toddlers as well. The new classroom will open Sept. 1, 1996; applications for enrollment will be accepted beginning Jan. 1.

Arts and Humanistic Studies seeks director

The Intercollege Research Programs is seeking applications and nominations for the position of director for the Institute for the Arts and Humanistic Studies.

This is a half-time position and candidates should hold the rank of full professor at Penn State, have a distinguished record of academic and scholarly achievement, have a broad range of cultural interests and preferably some experience in administration.

More information about the position and the institute may be obtained from **William D. Taylor**, director, Intercollege Research Programs, 205 Kern Building, by phone at (814) 865-6305, e-mail WDT1@psuvm and fax (814) 863-7801.

Application and nomination materials, including a curriculum vitae and the names of three references, should be sent to William D. Taylor at the above address by Oct. 27. It is expected that the new director will assume the position Jan. 1.

Leave of absence OK'd

This additional leave of absence for the College of Agricultural Sciences has been approved: **John M. Halbrendt**, associate professor of plant pathology, to define the plant/parasitic nematode problems that limit vegetable and rice production in the Philippines and to initiate a research program to develop nematode management techniques compatible with Philippine agricultural practices in Nueva Ecija, Philippines.

CARPOOLER

Would like to carpool from State College to Pittsburgh every weekend. Leave on Friday and return on Sunday. Call Manju at 865-0378 or 237-8515.

Appointments

Joint appointment announced

Jonathan H. Merritt has a new joint appointment with the Division of Undergraduate Studies and the College of Earth and Mineral Sciences as director of academic advising for the college and senior DUS coordinator. He will direct the EMS Student Center. He succeeds Garry L. Burkle who is now director of enrollment services for the University.

Mr. Merritt has been an instructor in the college's Department of Meteorology since 1984 and coordinator of the Weather Station since 1986. In the Weather Station, he worked with the University community and the public, maintained the local climatic database and satellite imagery archives, supervised a staff of student assistants and served as adviser to the student-run Campus Weather Service.

Over the past several years, he has served the Department of Meteorology as an undergraduate adviser and admissions officer, scheduling officer, supervisor of the summer internship program and supervisor of the graduate student teaching assistants for the general education meteorology practicum. He has taught a range of courses in Meteorology, including introductory forecasting and analysis, introductory synoptic and dynamic meteorology and core synoptic meteorology. In 1994 the endorsement of the students in meteorology led to his successful nomination for the college's Wilson Award for Outstanding Teaching.

Prior to joining the Penn State faculty, Mr. Merritt held positions as caseworker in the Family Service of Rochester, N.Y., and as substance abuse counselor for the East Irondequoit New York Central School District.

He holds a B.A. degree in history from Brown University and an M.S. in meteorology from Penn State.



Jonathan H. Merritt

New director joins Facilities Engineering Institute

James R. Myers, a professional engineer, has been named director of the Facilities Engineering Institute, housed in the Department of Architectural Engineering.

As director, Mr. Myers oversees a staff of seven engineers and an annual budget of approximately \$600,000.

The Facilities Engineering Institute provides technical assistance to more than 70 physical plant facilities throughout Pennsylvania. Institute specialty areas include HVAC (heating, ventilation and air-conditioning), central boiler plants, water treatment and electrical distribution systems. The Institute also offers continuing education programs in facilities operation and maintenance for government and industrial sponsors.

During his career at the Facilities Engineering Institute, Mr. Myers has been involved in a variety of projects. He is the principal investigator in a Polish-American joint venture that reduces pollution from coal-fired boiler plants in Poland sponsored by the U.S. Department of Energy. Some of his other projects include working to develop major modifications to Pennsylvania coal specifications and procurement practices, and



James R. Myers

initiating a program that uses nondestructive examination techniques to study the life of existing state-owned boiler plants in Pennsylvania. The latter project extended the life of the plants, improving efficiency and saving millions of dollars.

In 1990, he received the PFMA Outstanding Achievement Award for advancing the planning and operations of Pennsylvania physical plant facilities and was recognized by the Pennsylvania Energy Office for his outstanding contribution to their boiler efficiency programs.

Mr. Myers joined the Institute in 1985 as a mechanical engineer and has served as the acting director for the past six months. Before coming to Penn State, he worked for Greeley and Hansen Engineers, Chicago, as a design engineer, and for United Conveyor Corp., Deerfield, Ill., as a project engineer/manager.

An environmental engineering graduate of Cornell University, he received a master's in architectural engineering from Penn State.

Penn College appoints new associate deans

Pennsylvania College of Technology has appointed three new associate deans as part of a reorganization of its academic affairs area.

James D. Naas, formerly assistant dean for the Construction and Design Technologies Division, has been promoted to associate dean for technology education. The new position was created to provide strong curriculum leadership, business and industry affiliation, technical program articulation and leadership in the redefinition of technology education.

James E. Cunningham, formerly director of computer services, is now associate dean for information technology. The new position will allow for focused leadership and collaboration of various college services and operations including computer services, the college library, telephone operations, instructional technology and mail services.

Larry L. Michael has been promoted from director to associate dean for the college's Technology Transfer Center and Continuing Education. An auxiliary operation of Penn College, the center has grown substantially in recent years.

The three new associate deans will report to David Jane Gilmore, vice president for academic affairs, and they will form an Academic Council along with Wayne R. Longbrake, dean of instruction.

Filling the assistant dean roles open as a result of the promotions and departures are Edward J. Hayes, former division director of the Industrial and Engineering Technologies Division, who will now serve as assistant dean for Construction and Design Technologies; and Terry A. Girdon, professor of business administration, now serving as assistant dean for Business and Computer Technologies.

Associate dean named in College of Communications

Jorge Reina Schement has been appointed associate dean for graduate studies and research/professional development for the College of Communications. He will serve as a consultant to the graduate program during the 1995-96 academic year before joining Penn State full time in August.

Dr. Schement is currently an associate professor in Rutgers' School of Communication, Information and Library Studies with a joint appointment in the Department of Puerto Rican and Hispanic Caribbean Studies. Before teaching at Rutgers, he served on the faculties of the University of Texas, USC and UCLA.

A national leader in telecommunications policy and information studies, Dr. Schement's research addresses the question of the social and policy consequences of the production and consumption of information.

At the invitation of the chairman of the Federal Communications Commission, Dr. Schement served as director of the FCC's Information Policy Project in 1994. His policy research contributed to a 1990 Supreme Court decision in which Justice William J. Brennan cited

Dr. Schement's research in order to establish evidence that minority broadcast station owners are more likely to hire minorities in managerial positions, thus increasing diversity among broadcasting decision makers

(Metro Broadcasting Inc. v. Federal Communications Commission et al.). In 1980, Dr. Schement was President Carter's nominee for Federal Communications Commissioner.

He has served on advisory panels to the Office of Technology Assessment of the United States Congress and to the United States Commission on Civil Rights in the wake of civil disturbances in Los Angeles.

Dr. Schement has published numerous articles, reports and papers, and he is currently writing another book, *The Wired Castle: Information Technology and the Transformation of the American Home*. He has written two books that have been published this year: *Tendencies and Tensions of the Information Age* (Transa 1995) and *Toward an Information Bill of Rights and Responsibilities* (Aspen Institute, 1995). Previously, he published *Between Communication and Information* (Transaction, 1993), *Competing Visions, Complex Realities: Social Aspects of the Information Society* (Ablex, 1988), *The International Flow of Television Programs* (Sage, 1984), *Telecommunications Policy Handbook* (1982), and *Spanish-Language Radio in the Southwestern United States* (Texas, 1979).

Dr. Schement earned a B.B.A. in management from Southern Methodist (1970), an M.S. in marketing from the University of Illinois (1972) and a Ph.D. in communication from Stanford University (1976).



Jorge Reina Schement

Governmental Affairs director comes on board

Anthony E. Wagner, director of legislative relations in the College of Agricultural Sciences, has been appointed director of legislative affairs in the Office of Governmental Affairs. David R. Schuckens, special assistant to the president for governmental affairs, said Mr. Wagner will be a liaison between the University and the federal government with primary emphasis on Capitol Hill.

Mr. Wagner, a U.S. Navy diver from 1979-1983, is a 1987 Penn State graduate with a B.A. degree in political science.

From 1989 to 1991, he served as a fiscal policy specialist in the Governor's Office of the Budget, and from 1991-1993, he was executive assistant to Michael H. Hershock, secretary of the budget. In that capacity, he assisted in the development, implementation and evaluation of fiscal policy related to the operation and capital budget of the Commonwealth.

In 1993-1994, Mr. Wagner was deputy secretary for administration in the Pennsylvania Department of Agriculture, where he was responsible for budget and finance, personnel, contracting and procurement, legislative relations, electronic data processing, fleet and administrative services and the Pennsylvania State Farm Show Complex. He joined the College of Agricultural Sciences staff this year.

As a Penn State undergraduate, he was a University Scholar and graduated cum laude.



Anthony E. Wagner

Faculty/Staff Alerts

Benefits review

Faculty and staff members are reminded that during November each year they have the opportunity to make changes to their University-provided benefits to be effective the following January. While the benefits information material will not be mailed until the last week in October, all eligible employees are urged to begin thinking about their current coverages.

In addition to assessing current participation, please consider the following:

- **Benefit information packages**, including a statement of current benefits, will be sent to your campus mailing address. To receive your benefits information in a timely manner, your campus address must be current. Your Human Resources representative can help with this, if necessary.

- **Benefit confirmation statements** will be mailed to home addresses at the end of the switch enrollment period. To receive your confirmation statement in a timely manner, your home address must be current. The only method for changing home address is to complete a new W4 form.

- **Participation in Flexible Benefits Option 1** allows you to pay premiums for University health care and life insurance benefits with pre-tax dollars, which increases your net income.

- **Participation in Flexible Benefits II, III, or IV** for medical expense reimbursement and Option III, for dependent care reimbursement, allows you to pay for medical expenses not covered or for costs for dependent care with pre-tax dollars, which increases your net income. Options II and III require annual re-enrollment. If you do not complete an option form for 1996, you will not have deductions for that option.

- **The ability to change the amount contributed to either medical expense reimbursement or dependent care reimbursement accounts** is severely restricted by IRS regulations. Changes may be made only within 60 days of an IRS defined qualified change in family status.

- **Benefit Open Houses** will be held at University Park from 8 a.m. to 4:30 p.m. Nov. 10 and 17, in 101 Kern Building. Staff members from the Employee Benefits Division will be available to answer questions regarding benefit choices. There also will be representatives from HealthAmerica, the RiteCare Pharmacy (Maintenance Prescription Drug Plan/MPDP), the SERS and TIAA-CREF retirement systems, the five tax-deferred annuity companies, the Health Promotion office and the Child Care Program Services office.

- **Faculty and staff at other campuses** may attend sessions at their locations. Times and dates will be announced at each campus location.

Questions regarding the switch enrollment period should be directed to the Employee Benefits Division at (814) 865-1473 or by E-mail at BENE@psu.edu.

Learn about electronic resources

The University Libraries is offering a series of seminars during October to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM. LIAS searching techniques will also be presented. For more information about the seminars, which cover a wide range of areas from arts and architecture to education, to the social sciences, contact Joyce Combs social sciences at (814) 863-0325 or by E-mail at jsc@psu.edu. Seating is limited; early registration is encouraged.

Internet seminars

The University Libraries and Computer and Information Systems are offering a number of seminars on the Internet.

The wide-ranging Internet network is changing fast and is the current foundation for the Information Superhighway. The InterNexus seminar is designed to provide a few of the basic concepts and skills needed to successfully navigate the Internet. Registration is not required for this seminar.

- **InterNexus** (Walk-in participants are welcome.) Sec. 4, Oct. 16, Sec. 5, Oct. 24, 6:30-8 p.m., 101 Classroom Building, University Park Campus.

Once you have attended the InterNexus seminar, more advanced seminars are available. Participation in these seminars requires some basic knowledge of the Internet and registration is required for hands-on sessions. To register contact Jean Cowher at (814) 863-4356 or by E-mail at ajc@psuvm.psu.edu.

- **Introduction to World Wide Web/Gopher**, Sec. 2, Oct. 12, 6:30-8 p.m., 101 Classroom Building.

- **Introduction to the World Wide Web/Gopher Using Macintosh Computers** (This is a hands-on session. Registration is required and limited to 15.) Sec. 1, Oct. 25, 6:30-8 p.m., 117 Wagner Training Center

"You Can Ask Me About AIDS" Network

"HIV/AIDS: Spread Facts, Not Fear," a workshop aimed at preparing faculty and staff to become members of the University's "You Can Ask Me About AIDS" Network, will be held at the University Park Campus Thursday, Oct. 19, from 9 a.m. to noon, in 319 Rider Building. All are encouraged to attend.

The workshop will enable participants to become more comfortable sharing factual information about HIV/AIDS and identify campus and community resources for needs related to HIV/AIDS.

Established by the Penn State HIV/STD Consortium, this network consists of people who voluntarily serve as points of contact for faculty, staff and students who have questions

and concerns about HIV and AIDS. Upon completion of the workshop, participants may decide if they wish to become a member of the network. To register, contact Jan Hawker at (814) 865-3085 or JQH3@psu.edu.

National Technical Information Service

The University Libraries has made available the National Technical Information Service (NTIS) database containing summaries of all the technical reports, software, datafiles and other materials acquired by NTIS since 1964. While the database is geared primarily toward engineering and the sciences, it also contains material pertaining to business, economics, government policy, sociology and education.

There are almost 2 million items in the database and more than 200 federal agencies represented, including NASA, the Environmental Protection Agency, the National Institutes of Health, and the departments of Defense, Energy, Commerce, Agriculture, the Interior, Labor, Transportation and Health and Human Services. This NTIS database complements the University Libraries' collections of NTIS materials, which contain 500,000 technical reports and other items housed in the Engineering Library, as well as in the Earth and Mineral Sciences Library and the Documents Section of Pattee Library on the University Park Campus.

Conflict of interest regulations for research

The Public Health Service (PHS) and the National Science Foundation (NSF) have issued their final regulations regarding conflict of interest. The goal of these policies is to protect government-sponsored research from bias caused by the financial interests of investigators.

The PHS published its final regulations in the July 11 issue of the *Federal Register*. In the same issue, the NSF published an update of its regulations, originally published in the June 28, 1994, *Federal Register*.

Throughout this period, the University Faculty Senate Committee on Research (SCOR) and the Administrative Committee on Research (ACOR) have directed the development of the University's policies, aimed at complying with these new regulations. The policy is effective Oct. 1.

For the text of the policy, which is applicable to all sponsored project proposals, access the Research and Technology Transfer Organization home page on the World Wide Web at URL <http://info.sro.rti.com/pu.edu/csp/p99.htm> or contact Robert Killoren, director of the Office of Sponsored Programs, at (814) 865-3396 or by E-mail: killoren@rtto.psu.edu.

Continuing and Distance Education workshops

Continuing and Distance Education will hold the following workshops and conferences:

- **Strategies for Successful Education of Health Care Providers**, Oct. 5-6 at The Penn State Schuylkill.

This interdisciplinary program is designed to help educators develop skills that can be used in a variety of clinical and classroom settings.

- **For more information**, contact Chris Faust at (814) 863-1009.

- **1995 Penn State Education Summit, Collaborating for the Planned Curriculum**, Oct. 13-14 at The Penn State Schuylkill.

The conference will focus on themes related to collaborating for the planned curriculum.

- **For more information**, contact Judy Hall at (814) 863-5130.

- **Impact of Work on Older Individuals**, Oct. 16-17 at The Penn State Schuylkill.

This conference will examine how the workplace impact older individuals and will consider the consequences of retirement when viewed as a loss of a stimulating influence.

- **For more information**, contact Judy Hall at (814) 863-5130.

- **CREAD 95, An International Distance Education Conference for Educators and Industry Representatives**, Oct. 23-25 at The Penn State Schuylkill.

CREAD 95, through telecommunications technology, will join nine international sites throughout the Western Hemisphere to produce action plans addressing local and regional distance education needs.

- **For more information**, contact Judy Hall at (814) 863-5130.

- **Plastics Recycling Meeting: The Demand Video Conference**, Nov. 1, live via satellite at Penn State Erie, The Behrend College; Great Valley, Penn State Harrisburg; University Park and Wilkes-Barre campuses; and the Monroeville Center for Continuing and Graduate Education.

This conference will present comprehensive coverage of the issues involved in creating a cost-effective supply of quality recycled plastics.

- **For more information**, contact Jean McGrath at (800) 252-3592. In State College call 863-8306.

- **Science, Technology and Islamic Values: Building Ties into the 21st Century**, Dec. 1-3, at The Penn State Schuylkill.

This international conference will bring together scholars trained in Islamic science and philosophy with practitioners in the fields of economic development and technology transfer. If you are unable to attend the three-day conference, registration for the Friday evening reception dinner and presentation is available.

- **For more information** contact Judy Hall at (814) 863-5130.



Insect Fair fare

One of the attractions at the Great Insect Fair, held Sept. 23 in and around the Agricultural Sciences and Industries Building on the University Park Campus, was the assortment of edible insects that attendees could try. The insect delicacies were cooked up by a University entomologist for the well-attended fair, which also featured tours of the Frost Entomological Museum, art projects and informational sessions.

Photo: Howard Nueberger

News in Brief

Stone Valley fall programs

The Stone Valley Recreation Area, 17 miles south of University Park just off of Route 26, offers many year-round and seasonal recreation activities and facility rentals.

■ Fall recreation activities include canoe, rowboat, paddleboat and sailboat rentals, sailing lessons (group and private), fishing and hiking.

■ Fall programs include: group hayrides, fall foliage hayrides, group night hikes and group night canoes.

■ Facility rentals include the C.E. Lodge (year-round), Experi-

mental Forest Lodge (April-October) and pavilion (April-October). These facilities provide accommodations for group retreats, conferences and social events.

Cabins (year-round) provide overnight accommodations for families or small groups.

All of the rental facilities provide comfortable/rustic accommodations away from the busy atmosphere of town and campus.

For additional information or to have a copy of the fall program listing mailed to you, call (814) 863-0762.

Delegation to help celebrate exchange program's anniversary

In celebration of a collaborative educational venture that has spanned two decades, a delegation of visitors from the University of Leeds, England will visit Penn State from Oct. 1-4.

Marking the 20th anniversary of the Leeds/Penn State Exchange Program, the delegation will combine meetings with John A. Brighton, executive vice president and provost, and group task force meetings with social events.

Since 1976-77 when the first group of Penn State architectural engineering students headed to Leeds, more than 275 architectural engineering students have studied at the University of Leeds. In addition to the architectural engineering program, which has also accepted exchange students from Leeds, Penn State has expanded the program to include civil engineering students (61 since 1985), electrical engineering students (five since 1991-92) and mechanical engineering students (seven since 1993-94).

Since 1984-85, 54 full-time students from a variety of majors have attended Leeds as a part of the exchange. In all, more than 400 Penn State students have studied in Leeds.

Beyond the student exchanges, the two universities recently established a Joint Task Force to investigate the number of future collaborative opportunities, including promoting distance teaching of engineering courses, outreach and undergraduate recruitment in Asia. The Joint Task Force held its first meeting in June via a Pic-Tel linkup. Increased use of this technology will be a major topic of discussion during the visit. Additional meetings and commemorative events will take place when the delegation from Penn State visits Leeds in May 1996.

Headed by Joseph DiGregorio, associate dean in the College of Engineering, the Penn State contingent includes Ronald Filippelli, associate dean in the College of the Liberal Arts; Norman Freed, associate dean in the Eberly College of Science; Paul A. Seaburg, head, Architectural Engineering; Howard E. Wray III, associate dean, Undergraduate Education; and Michael Laubscher, director, Office of Education Abroad Programs.

Those visiting from Leeds will include: Stan Brown, provic chancellor; David Birchall, deputy registrar; and Tony May, dean, faculty of engineering.

Harrisburg board chairman announced

Harrisburg attorney Gerald Morrison, a shareholder of Buchanan Ingersoll's Harrisburg office, will serve as chairman of the Penn State Harrisburg Board of Advisors for the coming year.

Napoleon Saunders, business administrator for the City of Harrisburg, is vice chair and William Christ, senior vice president and chief financial officer of Hershey Foods, is treasurer.

Outgoing chairman Keith Clark, president of the law firm of Shumaker Williams, P.C., will serve as immediate past chair.

Second terms on the board were endorsed for LeGree S. Daniels, governor, U.S. Postal Service; Caroline Diamond Harrison, general manager, The Patriot News Co.; and Marcia Wharton, speaker/consultant.

Awards

Two Cooperative Extension agents honored

Two members of the University's Cooperative Extension staff are among 84 agents in the United States who received Distinguished Service Awards, and one agent is among 60 in the country to receive a national Achievement Award.

Eugene Schrumman, Indiana County extension agent, and J. Lee Miller, Beaver County extension director, were both honored with Distinguished Service Awards, while Patricia Gordon Anderson, Clarion County extension agent, was recognized with an Achievement Award.

The awards recognize individuals

for "outstanding educational contributions and accomplishments."

The Achievement Award is given to agents with less than 10 years of service.

Mr. Miller, a member of the extension staff for 26 years, was instrumental in developing the Master Gardener Program where 70 master gardeners have graduated and contributed 3,000 volunteer hours.

Mr. Schrumman has been a member of the extension staff for 16 years. He has been instrumental in development of the dairy calf and heifer educational program in Indiana County. Through

his leadership, the Indiana County program became a statewide initiative. Mr. Schrumman has provided leadership in developing regional adult education and 4-H dairy programs and has developed a strong 4-H tractor safety program.

Ms. Gordon Anderson provides leadership in the development of the Clarion County Farmers' Market Association. She also initiated a Master Gardener Program and served as the 4-H coordinator. She has also provided leadership to regional career programs for teens based on the NACAA Dow Study Tour concept.

Professor honored with AICHE award

Arthur Humphrey, professor of chemical engineering, has received the 1995 F. I. and Dorothy Van Antwerpen Award of the American Institute of Chemical Engineers.

Dr. Humphrey will receive a plaque and \$5,000 at the AICHE's annual meeting in November. The award recognizes his outstanding record of service to the institute.

Greener grass not always better for the environment

It's been about 20 years since a group of well-intentioned Boy Scouts introduced an ornamental European grass called *Phragmites australis* to Presque Isle, near Erie, in an attempt to control sand erosion. Today, *Phragmites* (pronounced "frag-mighties") is on a biological rampage, invading not only Presque Isle but area wetlands and uncultivated spaces where it crowds out native plants and destroys potential wildlife habitats.

"One of the biggest environmental problems we face today is the destruction of native species by exotic plants and animals," Pamela Botts, assistant professor of biology at Penn State Erie, The Behrend College, said. "Anything out of its natural place or time can create a domino-like set of problems."

Just how big a problem is or may be created by the plumed cane, which can reach heights of 20 feet, is what freshman biology major Daniel Murray Jr. intends to explore over the next few years under Dr. Bott's tutelage.

Increasingly popular as an element in decorative landscaping, there are several characteristics of *Phragmites* that make it a particularly persistent and successful natural habitat assailant. *Phragmites* produces fluffy seed pods that easily ride a breeze and travel to new locations. It also propagates by sending runners underground and above ground, producing new shoots and roots as the runners push in all directions from the parent plant. The parent plant also acts as a lifeline to the new shoots if out-lying conditions are not favorable, allowing a plant to stretch under a roadway, if necessary, before sprouting a "clone" of itself through the earth on the other side.



Biology major Daniel Murray Jr., left, and Pamela Botts, assistant professor of biology at Penn State Erie, The Behrend College, examine a patch of *Phragmites*.

Photo: Greg Grieco

The plant's method of duplication is therefore very efficient, Dr. Botts said, but also very risky in the sense that large clumps of plants may be genetically identical. Other plants that spread primarily through seed distribution have slightly varied genetic codes which allow some part of the species to survive should changes in habitat occur.

After researching existing studies in scientific journals on *Phragmites*, 19-year-old Mr. Murray decided to study how the cane grows and spreads, a project that will take three years to complete.

"I haven't found anything else that is quite the same as the approach I am taking," he said. Mr. Murray has selected six, half meter sites — three with existing stands of the grass, three with the potential for invasive movement — which he staked out and documented in early April to collect his baseline data.

His research ultimately will postulate potential techniques to clamp down

on the spread of this grass, asking where in its life cycle the plant is most vulnerable to failure to thrive. He is carefully delineating and recording how established stands of *Phragmites* compare with new stands and how both the spread and existence of the plant change the environment.

Phragmites reaches heights that dwarf a grown man and becomes so dense it is nearly impenetrable. The shade it creates eliminates the chance that native plants can establish a foothold because sunlight doesn't reach the ground. Dr. Botts suspects that because of its height and thickness, it also may act as a barrier to organisms and animals moving between habitats. In addition, *Phragmites* often competes with native plants — such as cattails — for the same space.

Exotic (non-native) species are introduced both purposely and by accident. Most recently, zebra mussels came to the Great Lakes in the ballasts of ships and are now causing extensive economic

damage by clogging pipes, ruining other shoreline structures and killing native canals and mussels. In Florida, ecological balance in the extensive waterways is threatened by the spread of live aquarium plants, animals and non-native fish being dumped into the system, she said.

"Such encroachment does not always create an immediate problem, but when non-native species could be released, we need to think carefully whether potential short-term benefits, perhaps in relation to economics, outweigh the long-term costs," Dr. Botts said. "It's very easy for things to be transported and transplanted throughout the world, but it is very difficult to control the sites once they are introduced."

"The world has gotten too small. Non-native species have become so commonplace that it is often hard to tell what is native and what isn't, but the problems created can be enormous."

— Tricia Wood DeMarco

Research



Leaders do more than dole out rewards

Leadership in the workplace means more than just telling people what to do, then rewarding the best and brightest workers with promotions and plum assignments.

"True leadership calls for an exchange of viewpoints between supervisor and worker, exemplified by the leader-member exchange (LMX) model used successfully in Japan," David V. Day, assistant professor of psychology, said. "Unlike other approaches to leadership, LMX asserts that supervisors should form a unique working relationship with each subordinate."

Dr. Day and Charlotte R. Gerstner, doctoral student in psychology, found that the most effective workplace leadership combines two styles, transactional and transformational.

Transactional leaders exchange highly-valued rewards (e.g. promotions, raises, good assignments) for more work, loyalty and commitment from followers.

In contrast, transformational leaders appeal to ethical values to communicate a vision to followers and then work with them to achieve higher levels of morality and motivation.

"It is unlikely that supervisor-employee relationships based exclusively on transactional exchange can ever result in a more efficient or pleasant workplace," Dr. Day said.

Study examines attitudes

A study of racial attitudes suggests that large Black populations provoke negative reactions among local Whites, especially outside the South. In contrast, the study shows that sizable Latino or Asian-American communities do not provoke the same negative reaction among White residents.

Marlyse Taylor, the study's author and associate professor of sociology, said that for most racial opinions, negative views among the Whites peak in areas where the Black population is above the national average. The study compared nationwide survey responses from 1,150 White adults with their local census data. Dr. Taylor said job competition is not the issue.

"Status may be at stake," she said. "Whites may bolster their self-concepts by distancing themselves from Blacks."

"Or, Whites may fear loss of political control when the number of Black residents expands."

University is ranked among nation's most efficient

The University Park Campus is ranked the eighth "most efficient" national university, according to the Sept. 25 issue of *U.S. News and World Report* magazine.

The new efficiency rankings are based on a school's overall quality ranking in relation to the school's expenditures per student. The *U.S. News & World Report* rankings "provide a realistic measure of where students can get the best education for the money," according to the magazine. "Only schools that finished in the top half of the magazine's quality rankings of national universities and liberal arts colleges were considered as potential best values."

Penn State is the only Pennsylvania

institution in the ranking of top 10 most efficient national universities.

"We are pleased to see that our value and efficiency are recognized among the best in the nation," said President Graham Spanier. "Penn State has made major contributions to the Commonwealth of Pennsylvania and the nation, while operating under modest state appropriations."

Tuition increases at Penn State have been less than the national average during the past several years.

"As we continue to seek increased public and private support for Penn State, I want to say with conviction that we are operating as efficiently and responsibly as possible. Our strategic planning programs and efforts at Con-

tinuous Quality Improvement are bringing results," he said.

This is the second year Penn State was cited in the magazine's ranking as eighth most efficient in the nation.

"Penn State has worked hard to accommodate the rising costs of higher education," Dr. Spanier said. "To minimize tuition increases and to ensure that the taxpayers of the Commonwealth receive the best possible value for their investment, the University continually evaluates its expenditures, reallocates funds internally and holds cost increases to only the most critical operating needs. As a result, Penn State is an extremely cost-efficient university."

In a survey of Big Ten universities

plus the universities of Maryland and Virginia, total expenditures per student at the University Park campus were lower than all but one of the 12 institutions. When all Penn State campuses were included, Penn State ranked 12th out of 12.

In another analysis, Penn State's instructional costs per student in various academic disciplines were compared with those of 14 other public universities belonging to the Association of American Universities Data Exchange that have similar departments. Penn State's instructional costs ranked below the average in all 14 individual academic disciplines, and the University was 12 percent below the average across all disciplines.

Smeal College earns No. 8 spot in survey

The Smeal College of Business Administration was eighth among the nation's public business schools in *U.S. News and World Report*'s first-ever national survey of undergraduate business programs.

The college also was the highest ranking public business school in the Northeast.

U.S. News said The Smeal College was tied overall for 11th among the 294 public and private undergraduate business programs accredited by the American Assembly of Collegiate Schools of Business. The rating placed Penn State in the upper 4 percent of all accredited schools.

Earning a score of 3.4 (of 4.0), Penn State's business school was ranked with New York University, Purdue University, the University of Southern California and the University of Texas at Austin. Topping the ratings in a tie for first place were the University of California at Berkeley and the University of Pennsylvania.

Penn State, which serves more than 3,800 undergraduates at the University Park Campus, was among four Pennsylvania schools to make the rankings, along with Penn, Carnegie Mellon University (third) and the University of Pittsburgh (16th).

The *U.S. News* rankings were based on a survey of deans and directors of AACSB-accredited undergraduate business programs. These individuals were asked to rate the reputation of each school in one of four tiers. A first-tier rating was assigned a value of four points, the second tier three points and so on. Points were then totaled and divided by the total number of individuals who selected that school.

The Smeal College's executive programs are regularly ranked among the international leaders in their field and the MBA program is rated as one of the up-and-comers.



Autumn activities

Stone Valley Recreation Area offers a variety of year-round and seasonal recreation activities, including boat rentals. For a list of fall programs, please see page 14.

Photo: Greg Grieco



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We care!

Joining nearly 4,000 volunteers for the United Way's annual Day of Caring on Sept. 27 were, from left, George Moellenbrock, director of corporate and foundation relations, Brad Choate, associate vice president for development and university relations, David Lieb, director of development, and Robert Groves, executive director of University development. The four men, who helped erect playground equipment for the Infant Evaluation Program, were part of a crew of 31 Penn State students from Development and Alumni Relations, plus six lion ambassadors and nearly 25 employees of Coming Asahi Video Products Co. of State College at the site. This project was one of 120 projects across Centre County.

Photo: Greg Grieco

Airport to get \$4.6 million

The University has received nearly \$4.6 million in federal funds for a runway extension project at the University Park Airport, part of a long-range improvement plan at that facility. The money will pay for the first phase of construction of the estimated \$18 million project.

To help meet the growing demand for services and the higher number of aircraft — corporate aircraft in particular — the runway is being extended from its current 5,000 feet to 6,700 feet. As the seventh busiest airport in Pennsylvania in terms of passengers per year, just behind Erie, the airport at University Park must improve general aviation and field maintenance facilities to keep up with demand.

See "Airport" on page 2

New vice provost begins duties Oct. 15

Robert Secor, head of the Department of English and professor of English and American studies at Penn State, has been named vice provost, effective Oct. 15.

"I am delighted that Bob Secor has agreed to serve in this key position for the University. His record of leadership as a chair of the Faculty Senate, his administrative experience as head of a large and talented department and his record as an excellent teacher and a scholar make him a good fit for the position. I look forward to working with him in this new capacity," John A. Brighton, executive vice president and provost, said.

The vice provost assists the executive vice president and provost in ac-

See "Secor" on page 3

University Cancer Center established

The Milton S. Eshelman Medical Center
As part of the ongoing effort to fight a disease that strikes three out of every four families in more than 100 devastating forms, the Penn State University Cancer Center has been established at The Hershey Medical Center.

The center, which encompasses faculty, nurses, staff and researchers

who work throughout the Medical Center, serves as an overarching organizational model that will allow more expanded research and treatment capabilities and services, and will help further collaborative efforts.

The center will be led by Dr. Rodrigue Mortel, associate dean and director. During his 23 years at Hershey, he has been instrumental in advancing cancer research and treatment. As a legislative watchdog for the Society of Gynecologic Oncology-

gists, he has testified before healthcare agencies and Congress on issues affecting gynecologic oncology (the study of tumors) and led the society's efforts in establishing a gynecologic oncology section within the National Cancer Institute's Division of Cancer Treatment.

"The University Cancer Center will provide a multidisciplinary and integrated approach to cancer prevention, education, diagnosis and treat-

See "Cancer Center" on page 2

Inside



Zoning made easy

A team of researchers has developed a computer program to help residents understand their options in community growth and zoning decisions. For more details, see *Focus on Research* on page 15.



Special Intercom Notice

Because of the Thanksgiving holiday, the *Intercom* deadline for the Nov. 30 issue will be Nov. 21 at noon, one day earlier than the regular deadline. Anyone with questions can contact the *Intercom* staff at (814) 865-7517.

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DIVERSITY

Celebrate Hispanic Heritage Month in November

"Hispanos Unidos en Diversidad" or "Hispanics United in Diversity" is the theme for the celebration of Hispanic Heritage Month, November 1995 at Penn State.

President Graham B. Spanier will give the opening remarks at the kick-off ceremony at 6:30 p.m. Thursday, Oct. 26, in 112 Kern Building at University Park. Tomas Arciniega, president of California State University-Bakersfield, will be the keynote speaker.

Hispanics comprise a complex mixture of ethnicity, race, culture and history. Language is a unifying factor, even though not all Hispanics speak Spanish. Amid this diversity within unity emerges something that is distinctly "Hispanic."

Hispanic Heritage Month is an outgrowth of the annual celebration of Puerto Rican Awareness Week, celebrated since 1986. This monthlong series of events is designed to celebrate the whole range of Hispanic culture and life. Puerto Rican Awareness Week is scheduled for Nov. 13-17 and will include a high school college fair

Celebration highlights

■ "Catholicism & the Conquest of Mexico: Beginnings of Hispanic Culture," presented by Andrew A. Sicree, from 8-10 p.m. Wednesday, Nov. 1, in the Paul Robeson Cultural Center.

■ Hispanics in Science, presented by Carlos Castillo Chavez, at 3 p.m. Tuesday, Nov. 7, in 323 E. Henderson; and again in a presentation by Lourdes Tinajero from 8:30-9:30 a.m. and 10:30-11:30 a.m. Wednesday, Nov. 8.

■ Latin Jazz performance by Jerry Gonzalez at 8 p.m. Saturday, Nov. 11, in Eisenhower Auditorium.

■ Puerto Rican Awareness Week video presentation: "La Murallas de San Juan" & "Lugares Turísticos de Puerto Rico" at 7:30 p.m. Tuesday, Nov. 14, in the Paul Robeson Cultural Center.

■ Closing Ceremony/Dance with live music at 9 p.m. Friday, Dec. 1, at the Nittany Lion Inn.

and a Puerto Rican food festival.

Festivities scheduled throughout the month include music, art, food, history, culture and language of Hispanics/Latinos in the Americas. Topics affecting Hispanics on the local, state, national and international level will be discussed in a series of workshops, panel discussions and lectures. The Matson Museum of Anthro-

pology in the Carpenter Building will mount three exhibits in November. One will explore the significant role of religious and village festivals in many Latin American societies by using masks, festival dress and musical instruments from Peru, Mexico, Bolivia and Guatemala. A second exhibit will highlight the creativity and skill of weavers in Mexican and

Peruvian traditional societies. The third will look at the origin of corn agriculture in the Americas. The museum will also feature a month-long film series.

Children's Day is set for 4 p.m., Nov. 5 in the HUB Ballroom. A Latino Talent Night, sponsored by the Latino Caucus, will be held on Nov. 10 at the Paul Robeson Cultural Center. Arturo Velazquez will give a talk on "Conexiones Africanas/African Connections to Latino America" at 7 p.m. Nov. 6 in the Paul Robeson Cultural Center.

Hispanic Heritage Month activities are sponsored by the Office of the Vice Provost for Educational Equity, Paul Robeson Cultural Center, Multicultural Resource Center, Department of Electrical Engineering, Department of Anthropology, Population Research Institute, College of Education, Society of Hispanic Engineers and PRSA/Latino Caucus.

For more information contact Latisha Mojica-Mejias at (814) 865-1764 or Luz Morillo-Lopez at (814) 865-3497.

AAAIAG conference at University Park Oct. 13-14

As part of the Fall Alumni Weekend, Oct. 13-15 on the University Park Campus, the African American Alumni Interest Group (AAAIAG) will hold a conference for its membership on Friday and Saturday, Oct. 13 and 14. All alumni are invited to participate.

Conference events include \$10 registration at the Ray Lounge in the HUB, a golf tournament Friday afternoon at the Penn State White Course, and a performance of the Dance Theatre of Harlem at 8 p.m. in Eisenhower Auditorium.

Saturday conference sessions include "Attacks on Affirmative Action-Economic and Educational Impacts" and a panel discussion on "Technology-Challenges and Employment," in the HUB Assembly Hall. The annual membership lunch meeting also will be held in the HUB.

Closing out the conference will be a student group reception and a closing reception and dinner in the Mars Room, Findlay/Johnson Commons, East Halls.

For more information on the conference, contact Cheryl Stringer, (814) 865-3376.

Diversity Briefs

'Ethnic Man' at McKeesport

Teja Arboleda as "Ethnic Man" brings his program *Entertaining Diversity* to the Penn State McKeesport Campus at 8:30 p.m. Tuesday, Oct. 10, in the Buck Union Building. The program is open to the public.

Mr. Arboleda is a professional television producer/director, writer, actor/comedian, public speaker and visual artist. He is founder and president of *Entertaining Diversity*, which is committed to diversity awareness training through entertainment in the format of theatre, lectures and seminars.

He is a liaison producer between television and video production companies in Japan and the U.S. In spring of 1994 he

won an Emmy Award for public affairs programming. He served for two years as staff editor for the nationally acclaimed PBS documentary series, *FRONTLINE*.

Cycling tour

On Oct. 13-15, a group of students, faculty and staff will bicycle approximately 180 miles from Washington, D.C. to Cumberland, Md., to raise awareness and funds for a number of agencies related to the homeless and women's issues in Centre County. Last year, more than \$6,000 was raised.

Anyone interested in participating or helping out can contact Ed Messersmith at (814) 865-3762.

Cancer Center

continued from page 1

ment, and follow-up care for children and adults," Dr. Mortel said. He plans to accomplish this by focusing on inpatient and outpatient clinical services; community screenings; and public and continuing medical education. The center will also focus on research into the possible causes of cancer and the potential cures.

Located in the middle of the state, the University Cancer Center will fill a void in cancer care for Central Pennsylvanians, who have had to travel to Pittsburgh or Philadelphia for treatment.

Currently, the Cancer Center outpatient practice is located in Suite 1300 of the University Physicians Center; administrative offices are in Suite 2010. A symposium, planned for Thursday, Nov. 9, in the Hospital Auditorium of The Hershey Medical Center, will be held to commemorate the official opening of the Cancer Center.

The symposium, "From Bench to Clinic," will feature presentations by some of the nation's leading cancer researchers, who will address the latest developments in basic cancer research and their implications for treating cancer patients. For more information about the symposium, speakers or registration fees, contact (717) 531-7963.

Airport

continued from page 1

In anticipation of these increases, the Board of Trustees in May approved revisions to the airport master plan that called for the redesign of the area east of the main terminal building and south of Fox Hill Road, in addition to a runway expansion. A separate terminal is under consideration for the airport's general aviation area, as well as additional aircraft hangars and a new field maintenance building. Also, several old hangars and the existing general aviation terminal will eventually be torn down to allow for other improvements in long-range plans for the airport.

The \$4.6 million comes just one year after Penn State received a \$15 million federal grant to pay for design and engineering costs for the extension project. Funding for the last phase of development is expected to be released in fiscal year 1996.

Spanier part of 20-member national commission

President Graham B. Spanier has accepted an invitation to serve on a national commission that will demonstrate ways in which public universities must change if they are to serve more effectively America's changing economic and social needs. The Presidents' Commission on the Twenty-First Century State and Land-Grant Universities will include about 20 university chief executive officers and is funded by a grant from the W.K. Kellogg Foundation.

Each member of the commission will use specific examples from his or her university to show how the nation's changing needs are being addressed. These examples could be used as models for implementation by other institutions.

According to Peter McGrath, president of the National Association of State Universities and Land-Grant Colleges (NASULGC), which created the commission, member presidents will focus on four key areas:

- food, agriculture and nutrition;
- improvement of elementary and secondary education as a higher education responsibility;
- youth at risk;
- improvement of outreach education by melding the efforts of all public universities to serve the needs of the nation's rural, urban and suburban populations.

"Penn State, with its strong tradition of public service, can be an enormous force for positive change in these critical areas," Dr. Spanier said. "I'm looking forward to working with my colleagues here at the University in presenting to the commission some specific ways in which we are confronting the realities of the next century."

The commission, chaired by President E. Gordon Gee of The Ohio State University, will have a life span of about four years under the Kellogg grant, but Dr. McGrath said NASULGC will continue promoting the commission's agenda for reform and change after the grant has expired.



On the road again

Employees of Atlas Pressed Metals in DuBois, Pa., Randy Oswald (left) and Ken Keth talk with President Graham B. Spanier about shipping powdered metal bearings and structural parts that are manufactured by the firm. Atlas, which employs approximately 43 people, was the latest stop on the president's statewide tour, which took him to DuBois Campus on Sept. 29. In answer to the needs of local industry, the campus offers an associate degree in materials engineering technology.

Photo: Greg Grieco

NEXT STOP: Mont Alto

Dr. Spanier continues his statewide tour with a stop Oct. 12 at the Penn State Mont Alto Campus in Franklin County. This is his third campus visit in his 25-site tour.

FAST FACTS ABOUT MONT ALTO CAMPUS

Founded: 1903

Service area: Adams, Cumberland, Franklin and Fulton counties

CEO: Corrinne A. Caldwell

Employees: 180 (includes full- and part-time employees)

Key programs: Offers seven associate degrees, including forest technology, nursing, physical therapist assistant and occupational therapy, offers first two years of 180 baccalaureate degree programs offered by Penn State.

Secor

continued from page 1

demic administration, including personnel matters such as promotion and tenure, sabbatical leaves and other faculty development programs. Dr. Secor will serve as a liaison with the Office of Human Resources, manage executive searches and represent and assist the provost on special projects. He will also represent the provost on the Faculty Senate Faculty Affairs Committee and will meet regularly with the Senate Council.

"As difficult as it is for me to leave the English department, which has been my life for the past 26 years, I don't think there has been a more exciting time in the history of the administration of Penn State as now, and I am delighted to be a part of it," Dr. Secor said.

This spring, Dr. Secor was honored with the 1995 McKay Donkin Award for his contributions to the welfare of the faculty at Penn State. Among his most recent administrative leadership positions, he served as a consultant and ex-officio member of the Penn State Presidential Search Committee; was one of five faculty members to



Robert Secor

represent Penn State last year as a fellow of the CIC Academic Leadership Program; was chair of the Joint Committee to Assess Tenure and Promotion Procedures; and is currently chair of the Steering Committee for Middle States Accreditation.

In the Faculty Senate, he has served on a number of committees since 1987, and as chair in the 1991-92 academic year. Last year, he served on the Senate's Committee on Faculty Workload and Accomplishment that has received broad national recognition.

Dr. Secor's research and teaching specialties are 19th- and 20th-century American and British literature, with a particular interest in Joseph Conrad. He has published five books and monographs and has written more than 30 articles and chapters for vari-

ous literary journals. He also wrote on "Recapturing Community," for the *AAHE Bulletin* last year, recounting his experiences as Faculty Senate chair and department head. That piece was reprinted in the March 2 issue of *Intercom*.

His books include *John Ruskin and Alfred Hunt: New Letters and the Record of a Friendship*; *Conrad and American Writers: A Bibliographic Study of Relations, Affinities, and Influences*, written with Debra Modelmog; and *The Return of the Good Soldier: Ford Madox Ford and Violet Hunt's 1917 Diary*, written with Marie Secor, associate professor of English. Dr. Secor is co-editor of the journal, *Resources for American Literary Study*.

He also has given many addresses on leadership, administration and planning at University and professional conferences.

With a B.A. in English from Syracuse University and an M.A. and Ph.D. from Brown University, Dr. Secor joined Penn State as an assistant professor of English in 1969 and was made professor in 1986. In the department, he served as director of undergraduate literature, associate head, director of graduate studies and was named head of the department in 1990.

AgrAbility offers help to farmers with disabilities

The word farmer conjures up images of a strong person with work-weathered hands who toils long hours in the fields and barns. Probably the last image that comes to mind is one of a person with a disability.

But debilitating illnesses and injuries caused by the hazards of farming leave roughly 250 Pennsylvanians permanently disabled each year. Nationwide, the National Agricultural Statistics Service estimates that more than 200,000 farmers, ranchers and other agricultural workers are injured or fall seriously ill every year. As many as 500,000 people working in agriculture have physical disabilities that interfere with their ability to work.

Now, thanks to a three-year, \$90,000-per-year Farm Bill grant, the University's Cooperative Extension Service and the Easter Seal Society of Central Pennsylvania have teamed up to help farmers with disabilities remain productive. The AgrAbility project for Pennsylvanians program, part of a nationwide AgrAbility project, was launched in January. Currently, the local AgrAbility team is working with about 30 people.

To identify clients, Cooperative Extension and the Easter Seal Society work together with the Office of Vocational Rehabilitation (OVR), a statewide agency that assists people with disabilities to return to the workforce following an injury or illness.

"From there, we do an on-site farm assessment and look for things that would make it easier for them to keep farming," Doug Schaufler, project associate with the Department of Agricultural and Extension Educa-



An AgrAbility project in the Midwest helped this farmer modify his tractor with steps and a place to hang his crutches so that he can continue to farm his land despite his disability.

tion in the College of Agricultural Sciences, said. "A lot of times when you do something the same way day in and day out, you don't notice a different way of doing it. I look at things from an engineering perspective, and so can suggest different options."

The Easter Seal Society provides occupational therapists for the on-site assessment, because therapists have a solid understanding of how muscles and parts of the body are being used and how to reduce the stress on parts of the body in certain movements.

"The farmer may need adaptations to his tractor, or a wheelchair ramp. The therapist can help identify these needs, and then work with the farmer to teach him how to use the modified equipment," Sue Lounsbury, regional director of the Easter

Seal Society of Central Pennsylvania, said.

Of course, the biggest source of information is the farmer, who can best tell the team which tasks are harder for him to do.

Once the on-site assessment is complete, the team writes its recommendations for how to get the farmer back on the job. Although it doesn't build the recommended equipment, it does what it can to connect the farmers with people who do, and with other community resources and services they may need. It also makes use of *Agricultural Tools, Equipment, Machinery and Buildings*, a book of modifications people have made over the last 10 or 15 years, published by the Breaking New Ground Resource Center at Purdue University.

"It's got a lot of ideas in it that are specific to farming that you won't find in the usual disability rehabilitation databases, including how to start (hammering) a nail with only one arm, and information on products including automatic electric gate openers that are recharged by solar cells," Mr. Schaufler said.

"Something else we try to do is to hook them up with another farmer who has a similar disability," Mr. Schaufler said. "We have one farmer who just lost a leg because of diabetes and we hooked him up with a farmer who's been farming for the last 10 years without a leg. Those two can start talking to each other so one guy won't have to reinvent everything. In that way, we try to build a network of different people."

Mr. Schaufler and Ms. Lounsbury are working to educate the public about the project, and to expand it into as many parts of the state as possible.

To that end, Mr. Schaufler wants to get a copy of *Agricultural Tools, Equipment, Machinery and Buildings* for every Cooperative Extension Office in Pennsylvania.

Easter Seals is working to get ongoing newspaper columns on a variety of related topics published throughout the state, and to inform rehabilitation doctors and other service providers of the project so they can refer their patients.

"The more people who know about the project, the better, because we can help more farmers and their families focus on their abilities, not their disabilities," Ms. Lounsbury said.

—Annemarie Mountz

News in Brief

Electronic database

Beilstein, an electronic database covering the field of organic chemistry from 1773 to the present, is now available in the Physical Sciences Library through the Committee on Institutional Cooperation (CIC).

The database is part of the CIC's Virtual Electronic Library (VEL) which provides access to a variety of electronic resources for students, faculty and staff at the 12 major research institutions that are members of the CIC.

The Beilstein database is the electronic version of the famous *Beilstein Handbook of Organic Chemistry*. It uses the CrossFire graphical interface, which allows patrons to search for chemical structures.

Although a Beilstein is installed on a terminal in the Physical Sciences Library (230 Davey Lab) at University Park, researchers also will be able to install the CrossFire client in their offices and laboratories on any of the

University's campuses.

The software can be obtained from the University of Wisconsin's World Wide Web site at the following address: <http://www.library.uwisc.edu:80/xiclient/>. The installation instructions are on the Web page.

More detailed instructions as well as user help sheets are available at the Physical Sciences Library.

"Making Money Stretch"

The Center for Adult Learner Services is sponsoring a program from 6 to 8 p.m. Tuesday, Oct. 17, and from noon to 2 p.m. Wednesday, Oct. 18, titled "Student Aid: Making Money Stretch."

The program, to be held in the HUB Gallery Lounge on the University Park Campus, will focus on:

- The application process (FAFSA form) and deadlines

- An overview of financial aid sources (grants, assistantships, loans and scholarships)

- The cost of attendance
- Developing a personal budget
- Hidden income sources
- Assets and liabilities
- Cost-saving tips

Anyone interested in attending or needing more information, should contact the Center for Adult Learner Services at (814) 863-3887 or stop by 323 Boucke.

The session is being presented by Jim Fay, financial planner, and Ro Nwarski, student aid/admissions adviser.

Education technology listserv now online

Education Technology Services in the Center for Academic Computing has created a moderated listserv to distribute announcements of interest to University faculty and staff who are working with education technology.

This listserv is not meant to be a forum for discussion, but a way to

quickly get out announcements.

To join this listserv, do the following:

To subscribe, anyone at PSU can send E-mail to listserv@psuvm.psu.edu

In the body of the note (not the header) type:

SUBSCRIBE L-ETA <your full name> (You should NOT actually type in the <>s, but use your name, such as "John Smith").

Maps Room reorganization

The University Libraries Maps Room in 202C Pattee Library at University Park has begun a reorganization process in order to make space for a computer lab.

During the next two weeks, map cases, maps and atlases will be moved, but reference staff will be available to assist patrons and to retrieve maps.

Geography department marks golden anniversary

Penn State is ranked No. 1 again — this time in geography. And just in time to kick off the 50th anniversary celebration of the Department of Geography on Oct. 12-14.

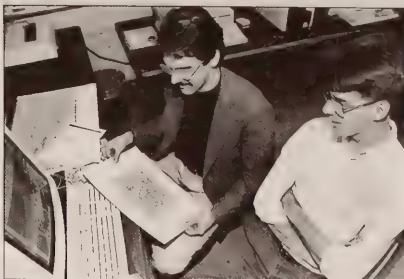
In a recently released assessment by the National Research Council of university research-doctorate programs in the United States, the Department of Geography, in the College of Earth and Mineral Sciences, ranked first among 36 programs. The comprehensive survey assessed scholarly quality in 41 academic fields, including effectiveness in educating research scholars/scientists.

"We are absolutely delighted at the news, which is icing on the cake for our 50th anniversary," Amy Glasmeier, acting department head, said.

"The top ranking acknowledges the hard work, leadership and dedication of the geography department's faculty and graduate students over the past 50 years."

Geography courses at Penn State were available as early as 1859, with the first catalog offering "geography and meteorology." Beginning in 1932, a regular program in college geography was offered and was expanded during that decade and into the 1940s. Geography became a separate program within the School of Mineral Industries in 1945, and began offering B.S., M.S. and Ph.D. degrees. Economist E. Willard Miller served as the first chair of the Division of Geography, and as department head from 1954 until 1963.

"The early goal of the department was to train professional geographers to meet demands from the federal government, industry, high schools and universities," Rodney Erickson, dean of the Graduate School and former head of the Department of Geography, said. "But in addition, the faculty focused on research, starting in economic geography. Allan Rodgers, who came to the department at this



David DiBiase, left, works on computer cartography with Ron Sil in the Deasy GeoGraphic Laboratory, an innovative lab in the Department of Geography that helped make it No. 1. File photo

time, added expertise in this area."

Over the years, the department's faculty roster has expanded, adding new dimensions and strengths such as cultural and regional geography, economic geography and more specialists in natural resources, African issues, quantitative and geographic information systems, cartography, global environmental change and climatological research.

"A key to the department's top reputation is its balance of teaching, research and public service," John A. Dutton, dean of the College of Earth and Mineral Sciences, said. "The geography faculty has stayed current in preparing courses to meet trends in general education, emphasizing both undergraduate and graduate degree programs. The department has led advances in a variety of geographic research areas both nationally and internationally. And the department faculty members have been very

active in community and professional service."

As an example, Dr. Dutton cited the department's collaboration in founding and developing the Earth System Science Center with the departments of Geosciences and Meteorology. The ESSC is providing national and international leadership in global change research.

The dean also noted the department's development of teaching and research laboratories in cartography and geographic information systems. The department maintains two labs in introductory and advanced GIS technology, as well as a third lab for cartographic teaching, all supported in part by student computer surcharge fees. In addition, the Deasy GeoGraphic Laboratory, under the direction of David DiBiase, is an innovator in the development of computer cartography, animated maps and multimedia coursework.

Here's what's new in Geography

■ The educational resources and research interests of the department are profiled in a new World Wide Web site which will be available through the Internet beginning Oct. 11. The address is <http://www.geog.psu.edu>

■ Geography alumni, faculty, students and staff will celebrate the 50th anniversary of the department the weekend of Oct. 12-14 at the University Park Campus. Events will include addresses by a number of distinguished speakers in the field of geography.

A variety of homecoming activities for the returning alumni are also planned.

The celebration will begin Thursday evening with an address on the "Global Landscape of Danger: A Geographer's Perspective," by George Demko, an Alumni Fellow and professor of geography at Dartmouth College.

On Friday, the department's weekly Coffee Hour will feature Peter Haggatt of the University of Bristol. His subject will be "Thoughts on Choosing a Geographical Research Topic: Design vs. Accident."

At an evening banquet on Saturday the speakers will be a panel of noteworthy alumni addressing the future of geography.

At the banquet the College of Earth and Mineral Sciences will present the Hosler Award to David Ley, a geography department alumnus.

The Hosler Award is given for distinguished achievement in academia.

Private Giving

DuPont gives \$231,000 for programs

E.I. du Pont de Nemours & Co. of Wilmington, Del., has given \$231,000 to the University to support several programs in science, engineering and business.

DuPont designated the bulk of the donation, \$148,000, to the colleges of Engineering, Earth and Mineral Sciences, Agricultural Sciences, and the Eberly College of Science for student aid, equipment purchases, research and faculty support.

The Smeal College of Business Administration was awarded \$31,000 to support undergraduate accounting, business logistics and finance programs. DuPont earmarked nearly a third of the amount for the Institute for the Study of Business Markets. The institute, which is made up of 40 member companies including DuPont, provides funding and support for research in business-to-business marketing.

DuPont made grants to two initiatives that support minority education at the University.

The Minorities in Agriculture and Natural Resources Association, an organization that provides academic support for students enrolled in those academic programs, received \$5,000, and the Minority Engineering Program received \$12,000. The company also funds the "Young Professor" program, which is a \$25,000 grant that enables a faculty member to initiate research in a specified discipline. This year's recipient, Patricia A. Bianconi, assistant professor of chemistry, also held the grant during the 1994-1995 academic year.

A \$10,000 grant to the Materials Research Laboratory will support a graduate student's research into alternate production methods of cubic boron nitride, a material used in the machine-cutting industry to cut coating tools.

Since 1989, DuPont has supported Penn State with more than \$1.7 million in grants that encourage University faculty and students to achieve academic and research excellence.

Couple pledges \$100,000 for fellowship

Sidney and Betty Shames of Briarcliff Manor, N.Y., have committed \$100,000 for an annually funded graduate fellowship in the College of Engineering.

Sidney Shames earned a master's degree in mechanical engineering from Penn State in 1942 and his undergraduate degree in 1940 from the City College of New York. He is a retired president and director of Melard Manufacturing Corp., a company he founded in 1948 that makes plumbing and household products and bathroom accessories.

Graduates of the City College of New York or students from the New York City area will receive preference for the Shames Fellowship. Students enrolled in all academic disciplines within the college are eligible.

The Shames will fulfill their commitment with annual gifts in \$10,000 increments to fund the fellowship for the next 10 years.

LECTURES

International symposium on art education begins Oct. 12

The Third International Symposium on the History of Art Education begins Thursday, Oct. 12, and continues through Sunday, Oct. 15, at the Nittany Lion Inn on the University Park Campus. This symposium commemorates the 30-year anniversary of "A Seminar in Art Education for Research and Curriculum Development" held at Penn State in 1965.

Some of the organizers and participants from the 1965 conference will be in attendance to offer their reflections on the Penn State seminar and its influence on art education. More than 75 papers and presentations are scheduled on various topics related to the history of art education. The symposium will be international in scope, with participants attending from locations throughout the world, including Japan, Spain, Korea, Scotland, Hungary, Canada and the United States.

Some of the topics to be explored by distinguished speakers, panelists and participants include:

- Victor D'Amico and Viktor Lowenfeld.
- Issues in art and education since the 1965 Penn State seminar.
- Historical research through personal

experience and investigation.

■ Historical studies of materials and technologies in art education.

An exhibition of rare books in the Rare Books Room of Pattee Library is scheduled to coincide with the symposium.

Another exhibition, "Art Education at Penn State," will be held in the lobby of Pattee Library. This exhibition will include archival materials documenting Penn State's historical contributions to the discipline of art education. Featured will be examples of children's drawings from the Goodenough-Harris collection.

The symposium begins at 1 p.m. Thursday, Oct. 12, and concludes at noon Sunday, Oct. 15. It is sponsored by the College of Arts and Architecture School of Visual Arts Art Education Program.

For more information, registration or fees, contact the History of Art Education Symposium, 207 Arts Cottage, University Park, Pa. 16802-2905; telephone (814) 865-6570; or fax (814) 863-8664.

Two-day photographic conference set for October

The Society of Photographic Education's mid-Atlantic region will hold its conference on Friday, Oct. 20, and Saturday, Oct. 21, in the Palmer Museum of Art on the University Park Campus.

This year's conference marks the first time the organization will meet in the western part of the region. This year the mid-Atlantic region will present the first Soli Mednick Award, for service to the photographic community, to Stefan Loran, whose contribution to the history of photography, and in particular to photographic literacy, is universally acknowledged.

Mr. Loran will give a public lecture about his life at 8 p.m. Friday, Oct. 20, in the Palmer Lipson Auditorium of the Palmer Museum of Art. The lecture is free to the public.

As the editor of the Munich Illustrated Press in the late 1920s, Mr. Loran is credited with inventing the photographic essay, a picture genre that reached its height on the pages of Life magazine. Mr. Loran initiated the pocket magazine Lipit and, later, Weekly Illustrated. Before moving to the United States in 1940, he was also the founding editor of the long-running English magazine Picture Post. In the U.S., Mr. Loran in 1941 published his famous picture history of Abraham Lincoln, which was followed by

10 other historically accurate illustrated books.

The Oct. 21 program will begin at 9:30 a.m. in the Palmer Lipson Auditorium and tickets are required. The first speaker is Pittsburgh photographer and teacher Lonnie Graham, who will discuss a pilot project which uses photography to teach high school students subjects ranging from language arts to mathematics to science.

Photographer and educator Walter Rosenblum will also discuss his view of photographic education.

The conference will continue in the afternoon with Richard Whelan, who will give a slide lecture about the photography published by Life magazine.

Wayne Miller will talk about his experiences as a member of Edward Steichen's Navy Photography Unit in the Pacific Theatre.

Ticket prices for the SPE conference are: SPE members \$25 if received by Oct. 13; \$30 if received after Oct. 13; at the door non-members \$30/\$35; student members \$5/\$10; student non-members \$8/\$12. Admission for Penn State students is free.

For mail registration make checks payable to SPE/Mid-Atlantic and send them to: Glenn Williamson, Palmer Museum of Art, University Park, Pa. 16802-2507.

Exploring distance education Oct. 20

To help Penn State faculty and staff understand and use distance education in their disciplines, the Department of Distance Education, Penn State Continuing and Distance Education, is sponsoring a workshop, "Exploring the Potential of Distance Education." The day-long seminar, from 8:30 a.m. to 4:30 p.m. Friday, Oct. 20, at the Penn State University Park campus, will be free for all pre-registered University faculty and staff.

The workshop will introduce participants to distance education uses, terminology, research foundations, and technology and the role it plays in higher education. Through presentations and demonstrations, participants will learn how Penn State faculty are delivering educational programs at a distance, using a variety of supporting media, such as print, videoconferencing, CD ROMs and the Internet.

Keynote presenters include: Gary Miller, assistant vice president for distance education, Penn State, who will provide the foundations of distance education; Michael Moore, academic director, American Center for the Study of Distance Education, Penn State, who will review the research and theoretical base of distance education; and Anthony Bates, director, Distance Education and Technology, University of British Columbia, who will share new directions and opportunities in distance education.

The registration for the one-day program is free for all Penn State faculty and staff and includes lunch at the Gardens Restaurant. Space is limited, so register by Oct. 13 by calling 1-800-PSU-TODAY (778-8632).

Nutrition for young athletes tops Oct. 21 workshop agenda at Penn State Scanticon

"Sports Nutrition for Young Athletes—A Guide for Parents" is a workshop focusing on nutrition as a key factor in athletic performance and optimal health. Set to begin at 8:30 a.m. Saturday, Oct. 21 at the Penn State Scanticon, the workshop offers morning and afternoon sessions and is designed to

help parents make sense of the newest information on sports nutrition for young athletes.

Kristine Clark, a registered dietitian and director of sports nutrition at Penn State, will be the instructor. Dr. Clark, who provides nutrition counseling for more than 1,300 varsity ath-

Population Research Institute kicks off new seminar series on Oct. 12

The Population Research Institute is initiating a new seminar series on "Biological Issues in Population Research." The purpose of this forum is to stimulate discussions and research collaborations by inviting speakers who integrate human biology and behavior in their research, or whose research is pertinent to those attempting to make this integration.

The first speaker in the series is Carol Worthman, associate professor of anthropology and director, Laboratory of Comparative Human Biology, at Emory University. Dr. Worthman's seminar, "Lifespan Endocrinology of Human Reproductive Ecology," proposes to link life history theory to data on developmental/lifespan endocrine function in various people who grow

up and live in different physical and cultural ecologies. The seminar will be held from noon to 1 p.m., Oct. 12, in 406 Oswald Tower and is open to the public.

The seminar series "Biological Issues in Population Research" is organized by Population Research Institute researchers Alan Booth, professor of sociology and human development; Elizabeth Susman, Shibley Professor of biobehavioral health and professor of human development and professor of Endocrine Lab Development, Department of Anthropology.

For more information, contact the Population Research Institute at (814) 863-9984.

letes from 29 sports teams, was the nutritionist for the United States World Cup Soccer Team during the summer of 1994 and is currently the sports nutritionist for the U.S. Men's and Women's Field Hockey Teams.

Registration for the workshop is

\$45. For more information, contact Stephanie Tyworth, Susan Building, University Park, Pa.; by telephone at (814) 865-0287; fax (814) 865-3343; or E-mail sdn1@cedu.sc.edu. To register, call 1-800-PSU-TODAY.

More Lectures

Elderly falls focus of presentation

Peter Cavanagh, Distinguished Professor and director of Penn State's Center for Locomotion Studies, will give a multi-media presentation on "Falls in the Elderly: Prediction, Perturbation, and Prevention" at 10:30 a.m. Friday, Oct. 13, in the Alumni Lounge, 101 Old Main, on the University Park Campus.

The presentation, co-sponsored by the center and the College of Health and Human Development, is part of Fall Alumni Weekend activities. The public is welcome to attend.

The presentation will combine video, computer graphics, and sound, to show how the science of human biomechanics can be applied to the study and prevention of falls in the elderly.

It also contains a historical segment on biomechanics.

Sports broadcasting session

Learn more about sports broadcasting during a special Friday night sports insights program at The Penn State Scanticon.

"The View from the Press Box: Inside Sports Broadcasting" will be held from 7:30 to 9 p.m. Friday, Oct. 6. Guests will be Phil Grosz, editor of Blue White Illustrated and Fran Fisher, best-known as the voice of Penn State football.

This program will give armchair quarterbacks the opportunity to hear what life is like in the broadcast booth. Find out about traveling with the Penn State teams, learn about recruiting and ask questions of your favorite press box occupants.

Tickets are \$15 and can be ordered by calling 1-800-PSU-TODAY, and also will be available at the door.

Financial health made easy

Conquer your fear of finance by attending "Hot Investments \$55" from 1 to 5 p.m. Friday, Oct. 27, at The Penn State Scanticon. J. Randall Woolridge, professor of finance in The Smear College of Business Administration, will discuss general financial themes, including the impact of changes in interest and exchange rates, as well as specific investing issues such as the boom and bust in emerging markets, value versus growth stocks and the performance of initial public offerings.

Dr. Woolridge has worked in more than 20 countries as a consultant. His clients include numerous Fortune 500 companies.

Program tuition is \$50 per person. To register or for more information, contact 1-800-PSU-TODAY.

Global landscape is Oct. 12 topic

The lecture titled "Global Landscape of Danger: A Geographer's Perspective" will be presented by George J. Demko at 7 p.m. Thursday, Oct. 12, at The Penn State Scanticon. A reception and book signing will follow. Please note: The original \$10 fee for admission has been waived. Participants can make reservations at no charge by calling 1-800-PSU-TODAY.

Talk on Egypt set for Oct. 10

Joel Gordon will be speaking on "Memories of Nasser's Egypt: Sketches from the Underground" at 4 p.m. Tuesday, Oct. 10, in 270 Willard Building on the University Park Campus. Dr. Gordon will be a joint Fulbright/SSRC faculty fellow in Cairo, Egypt, during the 1995-96 academic year. His talk, illustrated by slides, is sponsored by the Middle East Studies Committee.

Olympic champ to give Oct. 6 address

Olympic diving champion, author and AIDS activist Greg Louganis will give a Colloquy address at 7 p.m. Friday, Oct. 6, in Eisenhower Auditorium on the University Park Campus. Free tickets are available to the general public at the Colloquy office, 212 HUB, or if any remain, at the Eisenhower box office one hour before the address.

As a diver, Mr. Louganis excelled early. He began competitive diving at age 10 and by 16 won his first Olympic medal, a silver for platform diving in the 1976 Olympics. At 24, he became the first man in 56 years to win two Olympic gold medals in one year for diving, one in platform diving and one for spring-

board events. He has won the world championships six times and holds a record 476 national championship titles. In 1985, he was awarded the Sullivan Award as the nation's most outstanding amateur athlete.

In his recent autobiography, *Breaking the Surface*, Mr. Louganis not only recounts his athletic history, he also openly discusses his sexuality and his hopes for the future despite having AIDS. A movie about his life is in the works in which Mr. Louganis intends to portray his own diving.

For more information about Colloquy events, contact the Colloquy Office at (610) 865-9382.

Nobel Prize recipient presents Marker Lectures on Oct. 12, 13

Hans Albrecht Bethe, of the Floyd R. Newman Laboratory of Nuclear Studies at Cornell University, will present the Russell Marker Lectures in the Physical Sciences on Oct. 12 and 13, at the University Park Campus. Dr. Bethe was awarded the Nobel Prize in 1967 for his theory of energy production in the sun and other stars, which he developed in 1938.

The schedule includes a lecture intended for a general audience, titled "The Atomic Bomb," on 8 p.m. Thursday, Oct. 12, in 112 Kern Building, and a more specialized colloquium titled "Supernovae" at 3:30 p.m. Friday, Oct. 13, in 111 Wartik Laboratory. The lectures are sponsored by the Department of Physics and the Eberly College of Science, and are open to the public.

Dr. Bethe, one of the most creative and respected physicists of the century, has played a key role in shaping modern physics. He earned his doctoral degree at the University of Munich in 1928 under the guidance of Arnold Sommerfeld, then held a number of temporary positions in Germany before fleeing the Nazi regime in 1933. He arrived in the United States in 1935 via England and began a long association with Cornell University.

During WWII, he was the chief of the Theoretical Physics Division of the Los Alamos Scientific Laboratory working on the Manhattan Project. After the war, he resumed his teaching and research activities at Cornell, where he continued to work on nuclear energy, but primarily for its peaceful production of power.

One of the founders of the Federation of American Scientists, he and his colleagues are strong advocates for nuclear arms reductions and the end of the arms race. He was a member of the President's Science Advisory Committee between 1956 and 1959, and was also appointed by President Eisenhower to be a member of the U.S. Delegation to the Discussions on Discontinuance of Nuclear Weapons Tests in Geneva in 1958.

In addition to the Nobel Prize, Dr. Bethe received the Draper Medal of the National Academy of Sciences in 1947 and the Eddington Medal of the Royal Astronomical Society in 1963, both for his work in astrophysics; the U.S. Medal of Merit in 1946 for his work on the atomic bomb; and the Enrico Fermi Award of the U.S. Atomic Energy Commission in 1961 for his general work in nuclear physics and atomic energy. He was elected to the National Academy of Sciences in 1944. He is the recipient of honorary doctorates from 11 universities in the U.S., Europe and Asia.

Leadership talk planned for Oct. 12

"Creativity, Leadership and the 21st Century," a presentation by retired Lt. Gen. Walter F. Ulmer Jr., an expert in executive leadership and management of complex organizations, will help inaugurate the engineering leadership development minor in the College of Engineering on Oct. 12, from 2:30 to 3:30 p.m., in the Kunkle Lounge.

John Brighton, executive vice president and provost, will join Lt. Gen. Ulmer for a ribbon-cutting ceremony symbolizing the inauguration of this new minor. This interdisciplinary minor is designed for engineering students who wish to learn leadership development principles.

The minor was developed in response to requests from industry and the Leonard Center Advisory Board. It is an introduction to an

analysis of leadership roles and practices in engineering organizations.

Lt. Gen. Ulmer, former CEO of the Center for Creative Leadership in Greensboro, N.C., is a 1952 graduate of the U.S. Military Academy at West Point and received a master's degree from Penn State in 1973. In 1992 he was designated an Alumni Fellow. He was a faculty member, commandant of cadets at West Point and director of Student Research at the Army War College. He also headed the Army's Human Resources Development staff in the Pentagon.

His interests include the study of organizational climates, their development, measurement and sustenance and the continuing growth of experienced leaders.



Hans Albrecht Bethe

The ARTS

AT PENN STATE

Lecture-recital

Susan Boardman, associate professor of voice and director of the Penn State Opera Theatre, will present a lecture-recital at 8 p.m. Sunday, Oct. 8, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. The presentation, "Art Song Settings of Folk Songs by Australian and New Zealand Composers," represents a portion of Ms. Boardman's study of folk song settings for the concert hall.

She will be assisted by **Steven Smith** at the piano; **Richard Kennedy**, tenor; **Marshall Urban**, baritone; and **Sine Nomine**, a small choral group of University Choir members under the direction of **Anthony Leach**.

The concert is free to the public.

Map exhibition

The University Libraries and the Department of Geography in the College of Earth and Mineral Sciences will co-host a traveling facsimile exhibition of maps and illustrations from the 13th through the 17th centuries.

The display will appear in the Maps Room, 202C Pattee Library at University Park, from Oct. 9 through Oct. 23. The full-color reproductions include 43 historic maps and more than 150 illustrations. The exhibit depicts geographical, cultural and historic perceptions, and the transformation of the world throughout the period of European and Native American encounter.

The display comprises maps created by both Europeans and Native American cultures, and presents a distinctive view of an era of profound change and turmoil. The exhibit is divided into four sections: The World before Columbus, The Way to the Indies, Searching for an American Identity and Colonial Cartographies.

The map exhibit is a feature of the Department of Geography's 50th anniversary celebration to be held Oct. 12 through Oct. 15. For more information, contact **Shirley J. Davis** at (814) 865-0401.

Images of devastated Hiroshima

The exhibition, "Wayne Miller: Photographs of Tokyo, Yokohama and Hiroshima—September 1945," will open Tuesday, Oct. 10, and continue through Sunday, March 10, in the Palmer Museum of Art on the University Park Campus.

Although individual pictures of this historically important period have been widely reproduced in the press, this is the first exhibition by this internationally acclaimed photographer of

his photos from the end of WWII in the Pacific.

Mr. Miller was one of the original six photographers chosen by Edward Steichen, who later was named director of photography at the Museum of Modern Art, that formed the core of a small, elite group in the Navy's Aviation Unit.

Mr. Miller was aboard the USS Braxton enroute to Japan when the atomic bombs that ended the war were dropped on Hiroshima and Nagasaki. Landing on Aug. 30, 1945, Mr. Miller photographed trade on the streets of Tokyo. A few days later he took a train to Yokohama and then to Hiroshima. He was the first American photographer permitted into Hiroshima.

Mr. Miller will give a public lecture about his photographs in the Palmer Lipton Auditorium at 7:30 p.m. Thursday, Oct. 14. The exhibition and lecture are free to the public.

Clarinet Choir to perform

The Penn State Clarinet Choir, under the direction of **Smith Toolson**, professor of music, will perform for the Bach's Lunch concert series at 12:10 p.m. Thursday, Oct. 12, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture, School of Music and the University Lutheran Parish.

The Clarinet Choir consists of clarinet majors in the School of Music. They are: **Audrey Rottschaefer**, **Joshua Gray**, **Tom West**, **Colleen Cochran**, **Susan Grooters**, **Randall Chrismond**, **Melissa Vought**, **Scott Davis** and **Athena Yeager**.

The audience may take a brown bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided. The concert is free to the public.

Flutist in concert

Flutist **Eleanor Duncan Armstrong** will present a faculty recital at 8 p.m. Thursday, Oct. 12, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The program of chamber works will include collaborations with **Hill Olson**, piano; **Lisa O. Bontrager**, horn; **Elizabeth Eters**, alto; **Harp**, **Dan C. Armstrong**, drums; **Neal Holter**, bass, and **Arthur Goldstein**, jazz piano.

Also assisting will be members of the Penn State Flute Ensemble: **Catherine Bishop**, **Emily Hoppe**, **Katy Jones**, **Jeanne Provan**, and **Valerie Shustack**.

The recital is free to the public.



"Soldier at Center of Bomb Blast, Hiroshima," and other photographs by Wayne F. Miller on display Oct. 10 through March 10 at the Palmer Museum of Art on the University Park Campus.

Student art on display

An exhibit of Penn State student drawings titled "Mickey Mouse a la Robert Motherwell" is on display in the store window of Tower of Glass, 137 W. Beaver Ave., in downtown State College, through Oct. 22.

The exhibit features drawings by architecture students enrolled in the visual communication course taught by **Richard Alden**, assistant professor in the Department of Architecture.

Pattee exhibit

An exhibition of works titled "Visual Meditations" by Centre County artist **Greta Ehrig** is on display in Pattee Library's East Corridor Gallery through Oct. 31.

Using oil, watercolor and pencil, Ms. Ehrig focuses on floral subjects because she sees flowers "as a mirror of the human spirit at its most vulnerable and creative best." Her artwork is inspired by Georgia O'Keeffe, as well as the folk art tradition celebrated in the paintings of Frida Kahlo.

Ms. Ehrig received her bachelor of arts degree from Penn State with majors in art and psychology.

Penn State Harrisburg offers noon concerts

Two noontime presentations highlight October's concert schedule at Penn State Harrisburg.

On Oct. 11, **Fierro and Loy**, a classical, jazz and Broadway duo, bring their saxophone and piano stylings to the Gallery Lounge.

Singer/songwriter **Jack Gladstone** will perform Oct. 25 in the Black Cultural Arts Center.

In addition, the Gallery Lounge art exhibit through Nov. 4 will feature the works of **Bob Troxel** and **Lynn Cazan**.

Singer at Hazleton Campus

Songwriter and singer **Barbara Bailey Hutchison** will perform at 8 p.m. Tuesday, Oct. 10, at the Penn State Hazleton Campus, Highacres Commons Building.

A four-time winner of the NACA's "Coffeehouse Entertainer of the Year Award," she was honored in *Campus Activities Today* magazine as "Best Acoustic" and "Best Small Concert" performer.

Concert at DuBois Campus

Singer/songwriter **Angie Miller** will perform her unique brand of rock with a twist of country and blues in the Hiller Building Student Union at the Penn State DuBois Campus from noon to 1:30 p.m. Friday, Oct. 6. The performance is free to the public.

The next Cultural and Performing Arts Series presentation at the campus will be a program of classical music by pianist **Calvin Jones** at 7:30 p.m. Wednesday, Oct. 25, in the Hiller Auditorium.

Odyssey on WPSU

"Odyssey Through Literature," the Department of Comparative Literature's weekly radio series, returns to the air Oct. 11 with an 18-week season of new interviews. The series can be heard at 8 p.m. Wednesdays on WPSU, 91.5 FM.

On Oct. 11, host **S. Leonard Rubinstein** and Penn State historian **William Pencak** discuss the border between law and justice in the medieval Icelandic sagas.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, October 5

Bach's Lunch, 12:10 p.m., Eisenhower Chapel.

Nelson W. Taylor Distinguished Lectures, 4 p.m., 112 Kern Auditorium. Thomas Eagar on "Whither Advanced Materials and the Future of Metals."

■ Center for the Performing Arts, 2 p.m., Eisenhower Chapel. Caribbean Jazz Project. Call 863-0255 for tickets.

Friday, October 6

Palmer Museum, 2 p.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "African Art at the Palmer Museum."

Nelson W. Taylor Distinguished Lectures, 3 p.m., 112 Kern Auditorium. Thomas W. Eagar on "The Science of Welding and Joining Processes."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Gregory Elmes on "Uncertainty in a Decision Support System: Outwitting the Willy Gypsy Moth."

Colloquy, 7 p.m., Eisenhower Auditorium. Greg Louganis, Olympic diving champion, author and AIDS activist, to speak.

University Resident Theatre Company, 8 p.m., Pavilion Theatre. "Tamer of Horses," by William Mastroianni. Through Oct. 14. For tickets call 863-0255.

Saturday, October 7

■ Gallery Talk, 11:30 a.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "African Headdresses."

Sunday, October 8

■ Film, 2 p.m., Palmer Lipson Auditorium. "Africa: The Bible and the Gun."

■ Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. "Pippi Longstocking." American Family Theatre. For tickets call 863-0255.

School of Music, 8 p.m., Recital Hall. Susan Boardman, soprano.

Monday, October 9

Columbus Day

Tuesday, October 10

Annual Meeting of the Graduate Faculty, 4 p.m., 112 Kern Graduate Bldg. Address by President Graham Spanier.

Thursday, October 12

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Chorus Choir.

Third International Symposium on the History of Art Education, 1 p.m., and continue through Oct. 15. Commemorates the 30-year anniversary of "A Seminar in Art Education for Research and Curriculum Development" held at Penn State in 1965. For information call 865-6570.

Continuing and Distance Education, 7 p.m., Penn State Scanlon. George J. Denko will speak as part of Geography Department's 50th anniversary celebration on "Global Landscape of Danger: A Geographer's Perspective." For reservation call 1-800-FSU-TODAY. Reception and book signing to follow lecture.

Distinctive Styles, 8 p.m., HUB Fishbow. "One Alternative," duo of two guitarists and an obnoxious horn player, offers classical, folk, jazz and popular styles.

Mer Lecture in Physical Science, 8 p.m., 112 Kern Bldg. Hans Albrecht Bethe on "The Atomic Bomb."

School of Music, 8 p.m., Recital Hall. Eleanor Duncan Armstrong, flute.

Friday, October 13

Fall Alumni Weekend, through Oct. 15. Center for Locomotion Studies, 10:30 a.m., 101 Old Main. Peter Cavanagh on "Falls



University President Graham Spanier recently visited the African Headdresses exhibit at the Palmer Museum of Art on the University Park Campus with Karen Jones Artblum, director of the museum. The exhibit continues through Dec. 3.

Photo: Greg Grieco

in the Elderly: Prediction, Perturbation and Prevention."

■ Gallery Talk, 3 p.m., Christoffers Lobby, Palmer Museum of Art. Kay Picart on "Asian Art at the Palmer Museum."

Geography's Coffee Hour, 3:30 p.m., 26 Hosler Bldg. Peter Haegert on "Choosing Research Topics: Design vs. Accident."

Marker Lecture in Physical Sciences, 3:30 p.m., 111 Warrick Lab. Hans Albrecht Bethe on "Supernovae."

Center for Performing Arts, 8 p.m., Eisenhower Auditorium. Dance Theatre of Harlem. For tickets call 863-0255.

Saturday, October 14

Office for Minority Faculty Development Workshop, 9 a.m.-noon, 114 Kern Bldg. and Blainie Bowen on "Promotion and Tenure." For reservation, call Mary Leone at 863-1663.

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Efram Burk on "Photographs from the Permanent Collection."

Center for the Performing Arts, 8 p.m., Schwab Auditorium. Kandinsky Trio, "Tales of Appalachia." For tickets call 863-0255.

Sunday, October 15

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Cheryl Sny on "Looking at You: Portraits at the Palmer Museum."

■ Film, 2 p.m., Palmer Lipson Auditorium. "Africa: The Magnificent African Cake."

SEMINARS

Friday, October 6

Economics, 3:30 p.m., 123 Chambers. Eric Ghysels on "On Stable Factor Structures in the Pricing of Risk."

Agronomy, 3:35 p.m., 107 ASI. Scott Harkcom on "25 Years of Crop Rotation Research."

Philosophy, 4 p.m., 124 Sparks Bldg. Carl Michman on "Technology and the Future of Philosophy."

Monday, October 9

Center for Gravitational Physics and Geometry, 3:30 p.m., 115 Osmond Lab. Glenn Barnich on "Local BRST Cohomology

Groups: Interpretation and Applications."

Human Development and Family Studies, 4 p.m., 301 Hatzel Union Bldg. Edna P. Bennett Lecture Series: Irwin Sandler on "Development and Evaluation of a Theory Driven Prevention Program for Children at Divorce."

Tuesday, October 10

Institute for Policy Research and Evaluation, 3 p.m., 12 Sparks Bldg. Dennis Shea on "How Many People Died at Your Hospital Last Year? Information and Health Care Markets."

Geosciences, 4 p.m., 26 Hosler. Hydrosciences candidate to speak.

■ History, 4 p.m., 270 Willard Bldg. Joel Gordon on "Memories of Nasser's Egypt: Sketches from the Underground."

Wednesday, October 11

Gerontology Center, noon, 101 H&H Bldg. East. Trainees Panel on Research Ethics.

Thursday, October 12

Center for Gravitational Physics and Geometry, 11:30 a.m., 309 Davey Lab. Jorge Pullin on "A Rigorous Solution to the Quantum Einstein Equations."

The Population Research Institute, noon, 406 Oswald Tower. Carol Worthman on "Life-span Endocrinology of Human Reproductive Ecology."

Graduate Program in Nutrition, 4 p.m., 110 Warrick Lab. Brian W. Tobin on "Metabolic and Nutritional Consequences of Pancreatic Islet Transplantation."

■ Jewish Studies, 8 p.m., Palmer Lipson Auditorium. William Dever on "Archaeology of Israel."

Friday, October 13

Agronomy, 3:35 p.m., 107 ASI. Louis Saparito on "Evaluating Spatial and Temporal Nutrient Balance Changes on a Central PA Dairy Farm."

CONFERENCES

Thursday, October 5

Strategies for Successful Education of Health Care Providers, Penn State Scanlon. For information call 863-5120.

Wednesday, October 11

State Urban & Community Forestry Work-

shop, 150 attendees. Days Inn Penn State.

Friday, October 13

Penn State Education Summit: Collaborating for the Planned Curriculum, Penn State Scanlon.

African American Alumni Interest Group, through Oct. 14. For information, call Cheryl Stringer, 865-3376.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m.

"Performance Today," Mon.-Fri., 9-11 a.m.

"All Things Considered," Mon.-Fri., 5-7 p.m.

Sat.-Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m.

"Fresh Air with Terry Gross," Mon.-Fri., 4-5 p.m.

"Odyssey Through Literature with S. Leonard

Rubenstein," Weds., 7 p.m.

"Car Talk," Fri., 7 p.m. and Sun., 6 p.m.

"Living On Earth," Mon., 7 p.m.

"Piano Jazz with Marion McPartland," Mon., 8 p.m.

"Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

HUB Browning Gallery:

Oil paintings by Joanne Landis, through Oct. 22. Paintings consist of abstract impressionism full of round female forms in various colors.

HUB Formal Gallery:

Paintings by Frank Diaz Escalante, through Oct. 21. Paintings reflect lifetime experiences.

Kern Exhibition Area:

Wooden birdhouses by Vicki Sellers, through Oct. 24.

Jewelry by Shirley Greenleaf, through Oct. 15. Jewelry is made of line porcelain.

Photography of Genevieve Durand, through Oct. 24.

Palmer Museum:

■ "Sleeping Beauties: African Headdresses from the Jerome L. Joss Collection at UCLA," through Dec. 3.

"Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10, 1996.

Pavilion

Maps Room (202C):

"Maps and the Columbian Encounter," maps and illustrations from the 13th through the 17th centuries, Oct. 9 through Oct. 23.

East Corridor Gallery:

"Visual Meditations," by Greta Ehrig. Using oil, watercolor, and pencil on floral subjects. Through Oct. 31.

Zoller Gallery:

"Terrestrial Bodies," through Nov. 5. Features an eclectic group of 13 New York City artists.

■ Reflects an international perspective

TIPS

Information Penn State

Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in order from the telephone directories. Other messages are Weather—234; Arts Line—345; University Calendar—456.

Faculty/Staff Alerts

Research subjects sought

Dr. Larry Sinoway in the Division of Cardiology at The Hershey Medical Center is looking for research subjects for a two-week bedrest study funded by NASA. The lab is studying the nervous system's response to bedrest and needs healthy 20- to 40-year-old non-smoking men who are not currently taking any medications. The research subjects will receive \$1,050 for their participation. Interested participants may call **Cindy Hageman** at (717) 531-4176 or contact the lab through E-mail: hageman@med.hmc.psu.edu

Dual Career Employment Assistance

In support and recognition of the employment needs of dual-career partners, the University eight years ago established the Dual Career Employment Assistance Program. The program, designed for individuals being recruited or newly hired faculty and staff who have dual career employment needs, is administered through the Office of Human Resources and provides information and support to couples.

As part of the program, a coordinator will meet with one or both individuals to discuss their employment interests and discuss job search strategies. In cases where distance or other circumstances prevent personal meetings, the coordinator can work with individuals through correspondence and telephone contacts.

In addition, assistance from other local employers is available and information about the University's hiring procedures is provided. The coordinator can also make referrals to University and community employers, when appropriate, depending on the needs of each participant.

For more information about the program or about the one-day career seminars also offered by the Office of Human Resources to aid in career change or career planning, contact **JoLaine Teyssier**, program coordinator, at (814) 863-1218.

Online international conference

The *Journal of Buddhist Ethics*, the first electronic journal in the discipline of religious studies, is currently holding an online international conference, "Buddhism and Human Rights," which will run through Oct. 14 on the World Wide Web. The journal, established to promote the study of Buddhist ethics through publication of research articles, reviews, discussions and critical notes, can be found at URL: <http://www.psu.edu/bjeb/bjeb.html>.

Conference papers will be available to all journal subscribers through the JBE-L listserve. To subscribe to the listserve, log-in to the journal WWW site and click on "Subscriptions." Subscribers to the listserve will be able to participate in the online conference via the listserve. There will be a number of panelists who will serve as respondents to questions.

For more information, contact **Charles S. Prebish** by E-mail at cspl@psuvm.psu.edu.

Changes in nonprofit mailing rates

Nonprofit postage rates and eligibility requirements changed on Oct. 1. The postage for a letter-size piece increased four-tenths of a cent and non-letter size piece increased five-tenths of a cent. These rate increases only affect nonprofit second- and third-class rates. The increase is due to the passage of the Revenue Forgone Reform Act of 1993.

The changes in eligibility requirements may have an impact on some University mailings.

U.S. Postal Service guidelines require a mailing to be directly related to the type of permit issued. In this instance, Penn State's permits for educational mailings only affect mailings directly related to Penn State's educational programs may be sent at nonprofit rates. A mailing turned down for nonprofit status will be eligible for regular bulk rates.

For more information concerning this matter please contact **Frank Sinclair**, manager of Mailing & Addressing Services at (814) 865-0451 or E-mail fgs2@oas.psu.edu.

Graduate faculty annual meeting

The annual meeting of the graduate faculty has been scheduled for 4 p.m. Tuesday, Oct. 10, in Room 112 Kern Graduate Building on the University Park Campus. The principal item on the agenda is an address by President **Graham Spanier**. All members of the graduate faculty are encouraged to attend.

HRDC courses

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog. Course description can also be found in the catalog.

Overview of Different Types of Work Teams (PRO 033) Meets Friday, Nov. 3, from 9 a.m.-noon in 319 Rider; cost: \$35.

Understanding Variation in The Workplace: Lessons Of The Red Beads (CQI 015) Meets Friday, Nov. 3, from 1:30-3:30 p.m. in 118 Agricultural Science and Industries; cost: none.

What To Improve: Check Sheets, Pareto Charts and Scatter Diagrams (CQI 032) Meets Friday, Nov. 3, from 1:30-4 p.m. in 319 Rider Building; cost: none.

Career Planning (CAR 001) Meets for six sessions Monday, Wednesday and Friday, Nov. 6, 8, 10, 13, 15 and 17, from noon-1 p.m. in 319 McAllister Building; cost: \$20.00.

Measuring Improvements I: Histograms And Run Charts (CQI 033) Meets Monday, Nov. 6, from 1:15-2:15 p.m. in 319 Rider Building; cost: none.

Measuring Improvements II: Control Charts and Variation (CQI 034) Meets Monday, Nov. 6, from 2:30-4 p.m. in 319 Rider Building; cost: none.

Photoshop (MAC 010) Meets Monday, Nov. 6, from 9 a.m.-4 p.m. in 117 Wagner Building; cost: \$90.00.

Dynamic Brainstorming For Identifying Issues and Data (CQI 035) Meets Tuesday, Nov. 7, from 1:15-2:15 p.m. in 319 Rider Building; cost: none.

Introduction To The Internet (MAC 011) Meets Tuesday, Nov. 7, from 9 a.m.-noon in Room B Penn State Scantron; cost: \$90.00.

Tools and Techniques For Managing Projects (PRO 032) Meets Wednesday, Nov. 8, from 9 a.m.-4 p.m. in 319 Rider Building; cost: \$55.00.

Meeting And Retreat Planning (PRO 030) Meets Thursday, Nov. 9, from 8:30-11:30 a.m. in 319 Rider Building; cost: \$35.00.

New Work Habits For A Radically Changing World (PRO 063) Meets Friday, Nov. 10, from 8:30-11:45 a.m. in 319 Rider Building; cost: \$35.00.

Additional HRDC courses offered are:

Weight Watchers After Work. A new Weight Watchers series is now available after work. After Work series meets Thursdays, Oct. 12 to Dec. 21 (excluding Thanksgiving) from 5 to 6 p.m. in 105 OPP Building. Cost: \$115 (lifetime members \$105). Course: WEL 018, Section 3. To register, contact **Jan Hawbaker** at 865-3085 or JQH3@psuadmn.

Understanding Your EAP. Meets Monday, Oct. 16, from 1:15 to 2 p.m., in 118 Ag Sciences Building. To register, contact **Jan Hawbaker** at JQH3@psuadmn or 865-3085. Cost is Free.

EAP: The Supervisor's Role. Meets Monday, Oct. 16, from 1:15 to 3 p.m., in 118 Ag Sciences Building.

Enlightening Lunch — Balancing Stress. Meets Thursday, Oct. 12, from noon to 1 p.m., in 110 Henderson. Cost is free.



Accreditation team to meet with CQI teams

Several CQI teams will play an important role in informing the Middle States Accreditation team about quality improvement efforts at Penn State. Rutgers President **Francis Lawrence**, will lead the Middle States team, whose members will visit University Park and other Penn State locations from Oct. 8-11. The self-study will focus on the University's commitment to effective management and the enhancement of the quality of education. Quality improvement teams scheduled to meet with the accreditation visitors are:

- Central Enrollment Management Group (CEMG) Undergraduate Student Retention Team, **John Cahir**, leader.

- Counseling and Psychological Services (CAPS) Intake and Reception CQI Team, **Will Waddington**, leader.

- Interlibrary Loan CQI Team, **Gloriana St. Clair**, leader.

- Receiving and Processing Study Abroad Grades CQI Team, **Vicki Bordin**, leader.

- University Health Services Triage CQI Team, **Connie Cavalier**, leader.

- Representatives from Student Affairs, Undergraduate Education Collaborative Effort Teams.

The visitors will also meet with the CEMG Steering Committee and the current and past leadership of the University Council on Continuous Quality Improvement.

Quality forum

October is National Quality Month. The Quality Forum XI Teleconference is the centerpiece of the October celebrations. This year's Quality Forum, "People Who Make Quality Happen," will be downlinked to Penn State on Thursday, Oct. 26, from 11 a.m. to 1:30 p.m., at the Penn State Scantron.

See page 16 for more information.

For more information about CQI, please contact **Louise Sandmeyer**, executive director of the CQI Center, 303 Old Main, (814) 863-8721, lesl@psu.edu.

CARPOLERS

Looking for a carpool from Bellefonte to University Park. Work hours are 8 a.m.-5 p.m., Monday through Friday. Call Mike at 865-4400.

Looking to carpool from Bellefonte/Blanchard Street extended area to University Park, Monday through Friday. Call Cathy 863-7350.

Projects to increase University's Web presence

Eight new faculty technology initiative projects are now under way.

The projects, which are being developed jointly with faculty members and the Education Technology Services unit of the Center for Academic Computing, were selected from proposals to the 1995-96 Faculty Technology Initiative program. Four of the new projects focus on the development of instructional materials and class communications via the World Wide Web.

These include a project headed by **Susan Monk**, assistant professor of exercise science, at the Penn State Berks Campus. The project, titled Development of Human Anatomy Visual Collection, features the development of a collection of instructional material to support the delivery of Biology 29.

Another of the WWW projects is headed by **Daniel R. Hagen**, professor

and interim head, Dairy and Animal Science, and **Daniel R. Deaver**, professor of reproduction physiology. The goal of this project is to increase student access to images and slides on the comparative reproductive anatomy of animals for Animal Science 331 and 431.

Another WWW project, called The Sea Around Us: Developing Multimedia Resources and Interactive Simulations of Fundamental Processes, is in the College of Earth and Mineral Sciences. It is headed by a team of three — **Michael A. Arthur**, professor and head, geosciences; **Albert L. Guber**, professor and associate head, geosciences; and **Tim Robinson**, instructor, earth and mineral sciences. The fourth WWW project focuses on the need to increase communication among the faculty teaching the multiple sections of Engineering Graphics 50, and to promote the consistency of

experiences among the students. It is led by **Dhushy Sabhanathan**, assistant professor, School of Engineering Technology and Commonwealth Engineering; **Richard Devon**, director of Pennsylvania Space Grant Consortium and associate professor SETCE; and **Jeff Shapiro**, Ph.D. candidate, electrical engineering. It is titled: A Multimedia Network for Freshman Curriculum Using WWW and Video Conferencing Via Internet.

Two of the new projects focus on developing interactive materials for language instruction. **Linda Moehle-Vieregg**, assistant professor of German, is leading the development of a 500-word cultural pictorial for German students. This project aims to develop an English-German dictionary that uses interactive multimedia to convey cultural as well as linguistic information to beginning German students. The second language project is

a French grammar project for the first year of French. **Pierre Cintas**, associate professor of French at the Penn State Abington-Opotus Campus, is the faculty leader of the project.

Another of the new projects is developing a multimedia look at Dante's Inferno. It is jointly led by **Marlene Soulsby**, associate professor of German; **Mary Lynne Brannon**, senior instructional services specialist; and **Richard Dempsey**, assistant professor of computer science, all at the Penn State Worthington Scranton Campus.

The last of the new projects is led by **Barbara Bremer**, assistant professor of psychology at Penn State Harrisburg. It focuses on the development of instructional software for classes on the differently-abled. The goal is to develop interactive simulations that assist in communicating the impact of disabilities on one's mobility, hearing, and seeing.

Teaching Fellow award nominations sought

Nominations are being sought for the 1996 Atherton, Eisenhower and Alumni Teaching Fellow teaching awards. All of these awards will be presented at the Awards Convocation in March 1996.

The George W. Atherton Award for Excellence in Teaching recognizes excellence in teaching performance in the undergraduate program of the University. Up to four awards will be presented and faculty members at all locations are eligible.

To be eligible for nomination, a faculty member must have been a full-time member of the University faculty for a minimum of three years; have undergraduate teaching as a major portion of her or his assigned duties; have the rank of assistant professor, associate professor or professor.

The Milton S. Eisenhower Award for Distinguished Teaching is given in recognition of distinguished teaching at the University. Up to two awards

will be presented. To be eligible for nomination, a faculty member must be a tenured member of the faculty; have been employed as a full-time University faculty member for at least five years; and have undergraduate teaching as a major portion of her or his assignment. Members of a research staff, administrators (including department heads), and those who are predominantly teachers of graduate students are not eligible for this award.

The Alumni Teaching Fellow Award has been established jointly by the Alumni Association, the Undergraduate Student Government and the Graduate Student Association. The award honors outstanding teaching while providing encouragement and incentive for teaching excellence. One award will be presented.

Recipients of the Alumni Teaching Fellow Award are expected to share their talents and expertise with others

throughout the University system. Yearlong responsibilities may include such activities as participating in workshops and symposia, giving lectures or presentations on teaching techniques for new faculty and graduate assistants, taking part in discussions or seminars with students in the University Scholars Program and teaching honors courses. To be eligible for nomination, a faculty member must be full time, with a minimum of three years teaching experience. Evaluations will be based on demonstrated excellence and lasting impact in the following areas: scholarly teaching, academic advising and overall career guidance and enthusiasm and commitment.

Deadline for nominations for the awards is Oct. 27. For more information and nomination forms, contact the Office of Undergraduate Education, 417 Old Main, University Park or call (814) 863-1864.

Biotechnology center captures \$650,000 grant

The University's Bioprocessing Resource Center Inc. (BRC), one of seven Industrial Resource Centers (IRC) funded by the Pennsylvania Department of Commerce, has been awarded \$650,000 to support technical and business services for Pennsylvania's growing biotechnology industry.

The total represents a substantial increase over the past year and reflects the overall productivity of the center.

In 1994-95 the BRC assisted more than 40 companies through 81 consultations, engagements and project implementations. BRC's statewide client group includes small companies engaged in biotechnology, commercial agriculture, food processing and the life sciences.

BRC's programs supply technical and business experts to help small companies become more competitive. Typical projects involve investigating faster, more efficient production technology; advising start-up firms regarding regulatory compliance or quality control; or conducting pilot plant tests concerning protein purification, fermentation and other product development issues.

Recently, BRC also received a \$75,000 grant from Pennsylvania's Ben Franklin Partnership Program to provide in-house product purification services for its clients.

Founded in 1988, the BRC was incorporated earlier this year as a nonprofit entity. The BRC has headquarters at University Park and is a subsidiary of The Corporation for Penn State.

Obituary

Smeal College professor, researcher dies

Srikanth "Kant" Rao, Smeal College professor of business administration, died Sept. 12. He was 45.

A member of the business logistics faculty for nearly 20 years, Dr. Rao earned undergraduate degrees in mechanical engineering and management from MIT, and master of science and doctoral degrees from Penn State. He joined the University as a research assistant with the Pennsylvania Transportation Institute in 1971. In 1976, he became an instructor in The Smeal College's Department of Business Logistics, rose to the rank of assistant professor in 1977, associate professor in 1982 and professor in 1993.

Dr. Rao's research in transportation and logistics was wide ranging and included studies of pricing and

financing of transportation networks, national transportation policy issues and strategies, logistics information systems, simulation models for inland waterway systems, modeling of logistics systems, railway network analysis and impacts of just-in-time inventory management. He was the author or co-author of more than 70 articles, papers and book chapters, winning awards for several of these works.

Dr. Rao actively promoted greater cooperation between the academic and business communities to increase the usefulness of research. As part of this effort, he was appointed the first visiting scholar in the Consolidated Rail Corp. (Conrail) in 1990.

In addition to his research and teaching duties, Dr. Rao served as deputy director of the Pennsylvania

Transportation Institute from 1981 to 1983. On leave from the University from 1979 to 1980, he served as associate deputy secretary for fiscal and management systems in the state Department of Transportation. From 1983 to 1986, he was state deputy secretary of budget, Governor's Office of the Budget, and held the posts of deputy secretary of technology development and policy with the state Department of Commerce, and member of the Pennsylvania High Speed Rail Commission.

At the time of his death, he was a member of the University Faculty Senate and chair of the Senate Committee on Research.

Memorial contributions may be made to the Kant Rao Research Fellowship Fund in Business Logistics, c/o Penn State 1 Old Main, University Park, Pa. 16802-1502.

Awards

Eleven teaching projects earn Provost's Awards

Annual honor recognizes innovative teaching efforts of 43 faculty members

Forty-three faculty members, through a variety of collaborative projects, are moving away from the chalkboard method of teaching and reaching students through innovative techniques — some involving powerful new technologies.

In recognition of their efforts, 11 teaching projects — up from seven in 1994 — have been selected to receive support through the Provost's Awards for Collaborative Instruction and Curricular Innovation.

Established in 1991, the program recognizes outstanding collaborative teaching efforts of faculty who also have demonstrated strengths as scholars and researchers.

The award consists of salary supplements in addition to those given through merit evaluation. Projects recognized were selected by an advisory committee of faculty for their quality, innovation, long-term impact and collaboration.

Collaborative projects receiving awards this year are:

■ **Collaborative Development of Computer-Assisted Instructional Delivery Systems**

A multi-disciplinary work group has fostered increased use of technology-aided instruction by serving as advocates and resources in assisting others in developing coursework. The group developed a core of eight courses in the College of Agricultural Sciences that use computer-aided instruction.

These courses reached about 500 students last year.

College of Agricultural Sciences faculty: Steven L. Fales, Daniel D. Fritton, Harold W. Harpster, Paul H. Heinemann and C. Terry Morrow.

■ **Animal Nutrition: A Collaborative Approach**

Four animal nutrition courses were combined into one comprehensive course. Recognizing the needs of their students, who are mostly from non-farm backgrounds, the group uses multimedia-based technologies that enable many farm practices and processes to be brought into the classroom.

All lectures combine the use of a desktop presentation, color graphics, slides and full-motion digital video.

In addition, hands-on computer laboratories are used to emphasize and reinforce the various principles of animal nutrition covered in the lectures.

Through the use of CD-ROM, the program also is being developed as a model for distance learning in the animal sciences.

College of Agricultural Sciences faculty: Harold W. Harpster, Lawrence D. Muller and Kirk E. Barbieri.

■ **Biology in the 21st Century Classroom**

Introductory biology curriculum has been reworked to include four integrated courses that emphasize content and strive to train students to critically examine biological facts. Each course has a laboratory component and students are encouraged to write their own experimental protocols, analyze data and arrive at their own conclusions. In addition, discussion sessions where students are challenged to think critically are provided.

Eberly College of Science faculty: Richard J. Cyr and Carl S. Keener.

■ **Raymond Bowers Interdisciplinary Design Studio**

In this studio, architecture, landscape architecture and architectural engineering students worked together during spring 1995 on five interdisciplinary teams. Projects included: the urban design of a community-based primary health facility in Philadelphia; and the redesign of a failed public housing project in Philadelphia.

Not only did students work with those from other disciplines, they also acted as liaisons with residents of the community and with a panel of professional advisers in Philadelphia, providing them with "real-world" experience.

College of Arts and Architecture faculty involved: Thomas Boothby, Wladyslaw A. Strumilino and Don T. Luymes.

■ **The Integrative M.A. Degree in Music Theory and History, 1992-95**

Conceived in 1990 by a team of professors from music theory and music history, this integrative approach helps overcome the separate fields that are part of musicology.

The integrative degree incorporates a seminar that focuses on special topics and is taught jointly by a music historian and music theorist in an area of shared interest and expertise. Also uses a team-taught theory and history course and a range of more traditional disciplinary courses.

Faculty from both disciplines participate directly in the development and refinement of a topic for a student's master's thesis.

College of Arts and Architecture faculty: Maureen Carr, Taylor Greer, Robert Hatten, Eric McKee, Michael Broyles, Laura Macy, Dale Monson, Dean E. Williams and Amanda Maple.

■ **Product Realization Minor and the Learning Factory**

The product realization minor integrates a practice-based curriculum emphasizing manufacturing, design and business with on-site manufacturing facilities for product and process realization. The minor, which also includes a yearlong industrial project, complements existing majors in the College of Engineering and is a partnership program with the University of Puerto Rico-Mayaguez, University of Washington and Sandia National Laboratories.

College of Engineering faculty: Russell Barton, Paul Cohen, John Lamancusa, Kathryn Lilly and Renata Engel.

■ **Innovative Approach to CHEM 12**

Faculty combined and restructured curriculum from two existing courses and also developed new material for this course designed to provide students with basic concepts important to chemistry.

The course also strives to promote better study habits and uses multiple choice questions written by the students as study guides.

Eberly College of Science faculty: John P. Lowe, L. Peter Gold and Judy L. Ozment.

■ **Chemical Principles: CHEM 12 — the Penn State Berks and Penn State Abington-Ogontz campuses**

Related to the previous project, this initiative is designed to better prepare Commonwealth Educational System students for the CHEM 12 course.

Started at the Ogontz Campus by Judy L. Ozment, associate professor of chemistry, this project incorporates the use of a series of skill check tests (SCTs), which are short subject quizzes that check a student's basic skills on essential background material.

Students are required to pass all of the SCTs before receiving credit for them.

The SCT concept was passed on to Stanley Furrow, associate professor of chemistry at the Berks Campus.

■ **Introduction to Engineering Design — Penn State Erie, The Behrend College**

Reorganized the freshman engineering course EG50, engineering graphics, to provide students with an overview of engineering, introduce them to an engineering approach to problem solving and improve student retention by explaining the rationale for courses taken during the four years of study.

Faculty and staff involved: K. Holliday-Darr, J. Young, W. Lasher, R. Ford, E. Evans and John Beaumont.

■ **Cultural Studies and Composition: An Experiment in Collaborative Teaching — The Penn State Berks Campus**

Faculty members James Boyer, Raymond Mazurek and Michael Riley began teaching culturally-focused sections of English 15, which led to a common syllabus and common assignments as a way to enhance freshman composition.

The course is intended as an introduction to cultural literacy by exploring contemporary culture, focusing on a critique of mass culture and on multiculturalism. It looks at a wide range of topics, including current controversies in rap music, generational conflict, education and the impact of mass media on everyday life.

■ **Honors and University Scholars Programming Initiative at the Penn State Worthington Scranton Campus**

Three faculty members developed a host of activities aimed at honors students, but easily transferable to the entire student population.

Part of their initiative involves a series of one-credit, team-taught courses which focus on historical, philosophical and literary readings.

The courses are intended to stimulate thought about key questions in the humanities. These discussions often lead to panel presentations organized by students and open to the campus community.

In addition, trips to enhance class work and broaden students' experiences are incorporated, volunteer projects are undertaken to aid local civic groups and an Alumni-Mentor Program links honor students with alumni who work in the student's area of professional interest.

Faculty from the Worthington Scranton Campus: Todd Adams, Norbert Mayer and Marlene Soulsby.

Awards

Professor a Friend of
County Government

Penn State Harrisburg Professor **Beverly Cigler's** efforts to enhance local and municipal government have been applauded by the County Commissioners' Association of Pennsylvania.

Dr. Cigler, professor of public policy and administration, has received the Friend of County Government Award.

A nationally known expert on local government, Dr. Cigler has participated in conferences, research projects and publications across the nation and has been a speaker for CCAP at recent conferences.

She has been instrumental in the curriculum development for the Academy for Excellence in County Government and will continue to be a resource for selected faculty and CCAP members.

The Friend of County Government Award is presented annually by CCAP to "recognize individuals or organizations who have demonstrated a continued commitment to CCAP's members, the association, and county government in general." It is the highest honor CCAP bestows on non-members.



Beverly Cigler

Journal of Buddhist Ethics
a "Top 5 Percent Web Site"

The *Journal of Buddhist Ethics*, Penn State's first peer-reviewed electronic journal, has been selected as a "Top 5 Percent Web Site" by Point Communications Corp. in their Point Survey.

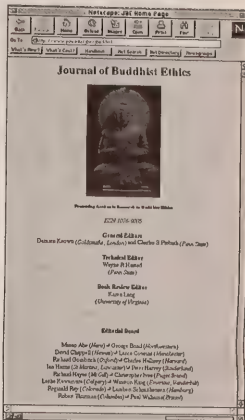
Point Communications surveys thousands of Web sites, rating them on content, presentation and experience on a scale of 0 to 49.

The *Journal of Buddhist Ethics* received scores of 44 in content, 33 in presentation and 35 in experience. Experience rates the feelings of the person viewing the site rather than the credentials of the site owner.

The *Journal of Buddhist Ethics* joins the "Weather Pages," a web site put together by the College of Earth and Mineral Sciences, in the top 5 percent category.

The *Journal of Buddhist Ethics*, co-edited by **Charles S. Prebish**, associate professor of religious studies, and **Damen Keown** of the University of London (Goldsmiths College) can be found at URL <http://www.psu.edu/jbe/jbe.html>.

In the past, the journal has also won four first place awards in international competition for electronic information servers: "Best Overall Networked Information System," "Best FTP Site," "Best World Wide Web Site," and "Best Electronic Journal."



Penn Staters

Daniel Conway, associate professor of philosophy, presented an invited paper to The Nietzsche Society of Great Britain, at the University of Hertfordshire, Watford, U.K. His paper, titled "Nietzsche's Dangerous Game," previewed the major themes of his forthcoming book under the same title, to be published in 1996 by Cambridge University Press.

Mary DeJong, associate professor of English and women's studies at the Penn State Altoona Campus, delivered a presentation, "Dickinson and the 'Voice' of Hymnody," at the Emily Dickinson International Society's annual conference at the University of Innsbruck in Austria.

Timothy Friebe, assistant professor of chemistry at Penn State Erie, The Behrend College, presented "Addition of Metal-Based Nucleophiles to Unsaturated Aldehydes" at the American Chemistry Society meeting.

Cathy Sargent Mester, senior lecturer in speech communication at Penn State Erie, The Behrend College, presented "Teaching as a Performance Art: Its Impact on Learning" at the Society for Teaching and Learning in Higher Education held at the University of Western Ontario.

Balasubramanian Narasimhan, assistant professor of statistics at Penn State Erie, The Behrend College, presented a paper he co-authored, "Bayesian Poisson Regression," at the International Conference of Bayesian Robustness in Rimini, Italy.

Eva J. Pell, Steimer Professor of agricultural sciences, was part of an international team teaching an advanced course and symposium in "Ozone and Other Oxidative Stress: Physiology, Molecular Mechanisms and Prevention" at the University of Kuopio, Finland.

Raymond W. Regan, associate professor of civil and environmental engineering, has received the 1994 Best Paper Award from the American Foundryman's Society. His paper is titled "Collective Management of Foundry Solid Wastes: A Case History."

Stephany J. Romano, administrative director, Occupational Health, has been named a Fellow of the American Society for Healthcare Risk Management, a division of the American Hospital Association.

Adam J. Sorkin, professor of English at the Penn State Delaware County Campus, gave an invited lecture, "The Disease of Translation," at the Third International Colloquium of Translators and Publishers of Romanian Literature, in Sinaia, Romania.

John W. Tarbell, professor of chemical engineering, has been named a member of the Surgery and Bioengineering Study Section, Division of Research Grants, of the U.S. Department of Health and Human Services. Members are selected on the basis of their demonstrated competence and

achievement in their scientific discipline. Study sections review grant applications, make recommendations and survey the status of research in their fields of science.

Margaret Thoms, assistant professor of management at Penn State Erie, The Behrend College, presented "Training Business Leaders to Create Positive Organizational Visions of the Future: Is It Successful?" at the Academy of Management's national meeting in Vancouver, BC.

Mirna Uquidi-Macdonald, associate professor of engineering science and mechanics, was an invited speaker at the ICG-EAC Member Meeting in Hakodate, Hokkaido, Japan. Her presentation was on "Stress Corrosion Cracking Prediction Using Artificial Neural Networks." Dr. Uquidi-Macdonald also traveled to China, where she presented talks on artificial neural networks to several universities, companies, and conferences.

Barry R. Weller, associate professor of economics at Penn State Erie, The Behrend College, presented "Applicability and Usefulness of VEC Models in a Small Region Employment Forecasting Context: A Comparative Evaluation," at the 15th International Symposium of Forecasting in Toronto.

Maria Womack, assistant professor of physics at Penn State Erie, The Behrend College, gave an invited talk, "Carbon Chemistry in Comets," to the American Association of Physics Teachers.

Appointments

Two join engineering C&DE program

Terry Reed and Deb Zimmerman have been appointed to positions in the College of Engineering Continuing and Distance Education Program. Mr. Reed is director and Ms. Zimmerman is program coordinator for engineering continuing and distance education.

Mr. Reed comes to the University from Westinghouse Electric Corp. where he was manager for the Cable Test Science & Technology Center in Pittsburgh. In that position, he operated two facilities for the Electric Power Research Institute and managed a budget of more than \$2 million.

At Westinghouse he held several positions, including manager of development projects and manager for transient analysis for the Advanced Systems Technology Division.

A licensed professional engineer, he holds 13 patents, primarily in the area of computer control of power plants, and is co-author of several technical papers. He is a senior member of the Institute of Electrical and Electronics Engineers.

An electrical engineering graduate of Penn State, Mr. Reed also holds a master's in business administration from the University of Pittsburgh.

Ms. Zimmerman, who has been with the College of Engineering since 1978, was an administrative assistant for continuing and distance education where she coordinated C&DE programs, including the Advanced School in "Power Engineering" and the "Fundamentals of Engineering Review" courses offered both on-site and via distance technology.

In her new position, she will assist Mr. Reed in determining market demand for the C&DE programs and work with faculty to develop and produce a variety of engineering C&DE offerings.

Active in C&DE programs locally and nationally, she is the Penn State representative to the Collaboration for Interactive Visual Distance Learning and to the Pennsylvania State Registration Board for Professional Engineers. She serves on the national board of directors for the PictureTel Users Group and presented a paper on off-campus credit programs to the National Issues in Higher Education's Quality in Off-Campus Credit Programs Conference in 1994.

Ms. Zimmerman is a graduate of South Hills Business School and is currently working toward a certificate in marketing management at Penn State.

Physical plant names engineer as assistant vice president

William J. Anderson Jr., a registered professional engineer with more than 20 years engineering and construction experience in the U.S. Navy Civil Engineer Corps, has been named assistant vice president for physical plant at the University.

As assistant vice president for physical plant, Mr. Anderson will be responsible for management of maintenance and operations, utilities, facilities management, engineering, facilities planning, design and construction management.

Mr. Anderson, who attained the rank of captain in the Navy, is a graduate of Tufts University with a B.S. degree in civil engineering. He received M.S. degrees in civil engineering from the Massachusetts Institute of Technology and the University of California at Berkeley, and completed the Executive Management Program at Duke University's Fuqua School of Business.

In the Navy's Civil Engineering Corps, he has been public works officer, Naval Communication Station, Stockton, Calif.; resident officer in charge of construction, Naval Submarine Base, New London, Conn.; director of planning, Chesapeake Division, Naval Facilities Engineering Command, Washington, D.C., and commanding officer of Naval Mobile Construction Battalion FOUR, a 600-person SEABEE battalion with construction operations in Europe, the Midwest, Pacific Islands, Alaska, the Caribbean and Central America.

He also has served as chief staff officer, Naval Construction Battalions, and director of facilities, U.S. Atlantic Fleet, Norfolk, Va. Before joining the Penn State staff, he was commanding officer, Navy Public Works Center Great Lakes, and commanding officer, Engineering Field Activity Midwest, Great Lakes, Ill.

Liberal Arts welcomes three

Three department heads in the College of the Liberal Arts have been appointed. They are: Robert C. Marshall, professor and head of the Department of Economics; Steve Mason, professor and head of the Department of Classics and Ancient Mediterranean Studies; and Dean R. Snow, professor and head of the Department of Anthropology.

Dr. Marshall previously was associate professor of economics at Duke University and from 1989 to 1991, research associate professor of statistics and decision sciences. His research in applied microeconomics is primarily concerned with the behavior of individuals and firms in auction and bidding situations. His work on the oversight of federal procurement of commodities, based on the protests of losing bidders, was the first investigation of the limitations of and ways to improve the existing process. Other ongoing areas of research include the study of the behavior of individuals and coalitions at auctions.

The author of numerous scholarly articles, Dr. Marshall has received grants from the National Science Foundation, the Pew Charitable Trusts and the Ford Foundation and has been a consultant to the House Government Operations Committee on the reform of the bid protest process.

He is a member of a panel within the Committee on National Statistics of the National Academy of Sciences and has held the position of visiting associate professor at several institutions including the Institute for Empirical Macroeconomics of the Minneapolis Federal Reserve, 1995; Northwestern University, Kellogg Graduate School of Business, 1994; Department of Economics, University of Minnesota, 1993; and Department of Economics,

University of Pittsburgh, 1993. He has also served as a consultant to the World Bank.

Dr. Marshall received a bachelor's degree in economics from Princeton University and a doctorate from the University of California, San Diego. He held positions in private industry until 1983 when he accepted the position of assistant professor of economics at Duke.

Dr. Mason formerly was associate professor at York University in Ontario, Canada. His scholarship concerns the writings of the first century Jewish priest and historian Flavius Josephus within the context of contemporaneous religious developments. He is author of numerous scholarly articles and of three books, and is currently preparing an annotated bibliography and commentary to the works of Josephus.

Among his awards is a three-year grant from the Social Sciences and Research Council of Canada for a study of gentle Christianity as a mediator of Judean culture in the Roman Period. Dr. Mason was the founder and first coordinator of IOUADIOS, an electronic forum for scholarship on Judaism in the Greco-Roman world. He was also a leader in the application of computer-assisted teaching in the humanities at York University.

Dr. Mason received his bachelor's and master's degrees in religious studies from McMaster University and his doctorate in biblical studies from the University of St. Michael's College. Before going to York University in 1989, he taught at Memorial University of Newfoundland.

Dr. Snow's research and teaching concern the archaeology of North America, and especially the Northeast. He has directed a major long-term archaeological study, The Mohawk Valley Project, from 1983 to present, and received numerous grants in support of that work. His many publications include an edited volume, *Tropics Medical Botany* (1994), and numerous other books.

Dr. Snow came to Penn State from the State University of New York at Albany, where he has been a member of the faculty since 1969. He was subsequently named an associate professor (1972) and professor (1980) of anthropology. In 1974-80 and 1989-91 he served as chair of the Department of Anthropology. He also was associate dean from 1980-83, and in 1983 the acting dean of the College of Social and Behavioral Sciences.

Dr. Snow has served on numerous committees as a consultant to various governmental agencies, cultural institutions and publishers. He has served as a member and chaired many review panels for such national agencies and organizations as the Long-Range Planning Commission of the American Anthropological Association, the National Science Foundation and the National Endowment for the Humanities.

Dr. Snow received his B.A. degree in anthropology from the University of Minnesota and a Ph.D. in anthropology from the University of Oregon.



Terry Reed



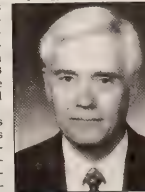
William J. Anderson Jr.



Deb Zimmerman



Steve Mason



Dean R. Snow



Robert C. Marshall

Software lets you see zoning regulations before they're implemented

A research team has transformed zoning regulations into easy-to-use maps and pictures on a computer screen.

The overriding goal of this computer program is to help residents understand both their options in community growth and the complexities of design and zoning decisions, Kelleann Foster, the team's co-leader and an assistant professor of landscape architecture, said. The program runs on a common, inexpensive personal computer.

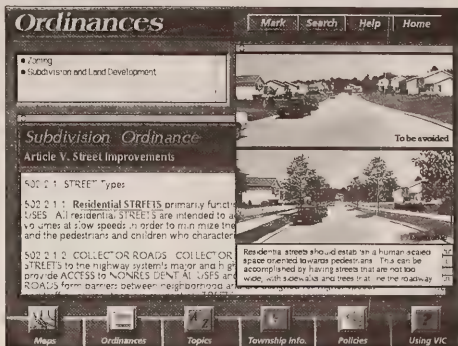
"Most people think they can't play a role in their community's growth, saying zoning regulations are too intimidating or that developments are done deals," Ms. Foster said. "The computer program offers pictures, video and sound to show what zoning looks like. This allows local residents to say 'We want this option instead of what has been allowed, because it makes our community more livable.'"

The computer program also helps developers and local officials.

Developers can find their way through local regulations faster, and can get feedback on their proposals earlier," Ms. Foster said. "This will allow them to become aware of needed changes before too much time and money has been spent on the plans."

This interactive visual program levels the playing field for municipal officials as it provides them a degree of sophistication often possessed only by the lawyers and designers who work for the developers. This new use of technology makes the dialogue of community growth more productive.

The program allows users to view scenes of their community on a computer screen based on



A team co-led by Kelleann Foster and Tim Johnson, both assistant professors of landscape architecture in the College of Arts and Architecture, developed this software to enable users to see how zoning regulations affect neighborhoods.

local zoning and design options. This will show the effects of both land use and design statutes, Ms. Foster said.

For example, someone interested in new housing that mimics design features of current neighborhoods can open a menu on the computer screen to display pictures of the neighborhoods. Use of the computer's mouse to click boxes alongside the images can add or remove features such as trees and sidewalks.

"Instead of leafing through legal language, users see the tree and sidewalk regulations displayed on an actual street," she said. "This shows developers what a planned residential development looks like, while it tells residents what developers should be doing."

The ability to incorporate both actual images from a community and its own regulations into the program is an asset, Ms. Foster said. The program makes it easy to edit text and to change graphics.

Ms. Foster and co-leader Tim Johnson, assistant professor of landscape architecture, developed the program from SuperCard multimedia software. A \$120,000 grant from the Richard King Mellon Foundation is allowing the team to fine-tune the work, called the Visual Interactive Code (VIC), and to try it out in Findlay Township, west of Pittsburgh.

Findlay Township is home to the new terminal of the Pittsburgh International Airport. Although mostly rural, the township expects to cover more than half its acreage with commercial and industrial development. Findlay Township has a newly updated zoning code and faces growth limits from airport noise, steep hillsides and open space regulations.

The research team is involving township residents by asking them to take pictures of their community for use in the VIC.

"This avoids a feeling of top-down imposition,"

Ms. Foster said. "Residents are helping to put their regulations together."

The team has already transferred the township's zoning and subdivision ordinances to the program. Later this year, they hope to test a completed VIC for Findlay Township.

In the meantime, the team is developing a universal framework to allow any community to use VIC to display local zoning and design options. This effort includes a manual on how to input both regulations and pictures, Ms. Foster said.

"We expect any municipality can use this with just a little bit of computer knowledge, and without needing to hire anyone," she said.

Zoning regulations tell local residents how their community should grow.

Regulations were illustrated when first used earlier this century, but pictures were dropped in favor of words as zoning grew complicated.

Research



Food trends to create restaurant renaissance

The rise of gourmet-style home delivery, the advent of long-distance cooking and the acceptance of prisoners as consumers are among the many trends shaping the future of foodservice management, experts from Forecasting International Ltd. and Penn State say.

Marvin Gelton, president of Forecasting International Ltd., in Arlington, Va., and Fred J. DeMico, associate professor of hotel, restaurant and institutional management, say many trends will create a restaurant renaissance in the next decade, including:

■ Consumers are buying more take-out food from restaurants.

■ More men will be doing the food shopping for their families.

■ Prisoners will be recognized as consumers, too, with increased attention from institutional foodservice and restaurant delivery services.

■ Changing consumer preferences will lead convenience stores to emphasize food quality.

■ The trend is toward fewer, bigger convenience stores.

New drug helps poison ivy

A new drug helps prevent the blisters and itching of poison ivy and poison oak.

Dr. James G. Marks Jr., professor of dermatology at The Hershey Medical Center, and his colleagues at three other centers tested the drug—quaternium-18 benzoate—on 21 patients with a history of allergic contact dermatitis, who were particularly susceptible to poison ivy and oak.

Each patient applied the quaternium lotion on one arm while nothing was put on the other arm. None of the investigators knew which arm had the lotion until after the experiment. Then one hour later, each patient's arm received a patch test with urushiol, which is the active chemical that causes the blisters and other skin reactions to the poison ivy and oak.

Of the 211, 144 reacted to the urushiol. In 98 of the 144 patients, quaternium completely prevented reaction. Those who did react had milder reactions. At least 50 percent of the population is sensitive to poison oak or ivy.

Dr. Marks says the next step is for the manufacturer, Envirochem Pharmaceuticals in Louisville, Ky., to get approval by the federal Food and Drug Administration before it is available to the general public.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Web site

Penn State athletics is now in cyberspace. Information on the Nittany Lion and Lady Lion athletic teams is available on the University's home page on the Internet's World Wide Web. The page may be accessed at <http://www.psu.edu> and then by clicking on "Sports, Clubs and Recreation." Sports news is under "Sports Information Office."

Five join Athletics Department

Five appointments have been announced by the Athletics Department. They include:

■ **John Smith**, an athletic trainer at Vandebilt for six years, has been appointed to a similar post at Penn State. His primary duty will be attending to the Nittany Lion basketball team.

■ **William Dorenkott** has joined the Nittany Lion swimming program as assistant coach.

■ **Karina D. Robidoux** will serve as the restricted earnings coach for the Lady Lion gymnastics team.

■ **Andrew T. Hardyk** has joined the men's track and field staff as the restricted earnings coach, and

■ **Nancy Graham** has been appointed Penn State's pool coordinator.

Faculty/Staff night

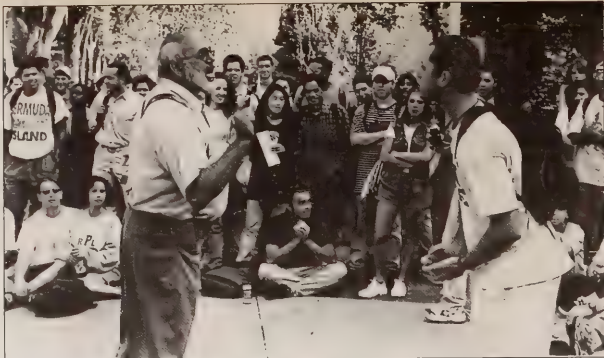
Faculty/staff and a guest will be admitted free to the Penn State women's volleyball game against Michigan at 7:30 p.m. Friday, Oct. 20, in Recreation Building.

Quality improvement to be discussed Oct. 26

The Quality Forum XI, a videoconference to be held from 11 a.m. to 1:30 p.m. Thursday, Oct. 26, at The Penn State Scenicco, will allow leaders from a broad spectrum of business sectors to discuss the latest issues and trends in the field of continuous quality improvement and to talk about what it means to stay competitive in today's market.

"Quality Happens Through People," the theme of the videoconference, will feature **Gary L. Tooker**, vice chairman and chief executive officer of Motorola Inc., as the keynote speaker. The program will focus on leadership, life-long learning and empowerment.

The registration fee for all University faculty, staff and students is \$25 and pre-registration is required. The event is sponsored by the Continuous Quality Improvement Office, Total Quality Council of Central Pennsylvania, the Penn State Student Chapter of the American Society of Quality Control and Continuing and Distance Education. To register, contact **Sue DeArmitt** at (814)863-0299; by fax at (814)863-7042; or by E-mail at smd4@cde.psu.edu.



Healthy debate

Bro Cope, self-proclaimed preacher and regular visitor to the University Park Campus, and student Paul Bulman engage in a discussion in front of Willard Building. This photo, taken by Erick Dering, a student in Jack Lauterer's photojournalism class, was the first assignment of the semester.

Undergraduate engineering programs rank high

The College of Engineering was ranked eighth nationally among the public institutions and 13th among all engineering schools listed in *U.S. News and World Report's* national survey of the top 50 undergraduate engineering programs.

The Department of Industrial and Management Systems Engineering was ranked fifth nationally in the Industrial/Manufacturing category of departments.

The College of Engineering tied for 13th with Northwestern University, Princeton University and Rensselaer Polytechnic Institute.

The College of Engineering is a leader in the national movement to reassess and revitalize undergraduate engineering education. Programs such as the Leonhard Center for the

Enhancement of Engineering Education, the Manufacturing Engineering Education Partnership (which houses the Learning Factory), and the Engineering Coalition of Schools for Excellence in Education and Leadership, which encourages active learning, design throughout the curriculum and student participation in educational initiatives.

Engineering is also developing interdisciplinary programs responsive to changes in the engineering profession and to the needs of employers. This fall, the college began an interdisciplinary minor to help engineering undergraduates develop the practical leadership skills they'll need throughout their careers. Other programs are the quality manufacturing management degree (offered jointly with The

Smeal College of Business Administration) and the energy and fuels engineering option in chemical engineering (offered with the College of Earth and Mineral Sciences).

Last spring, *U.S. News* surveyed deans and administrators of undergraduate engineering schools accredited by the Accreditation Board for Engineering and Technology. Two respondents at each school were asked to rate the reputations of institutions in their disciplines. Respondents were also asked to select the 10 top departments in 10 specialties. The response rate for the engineering survey was 46 percent, and the highest possible score was 4.0. The College of Engineering received an average score of 3.4.

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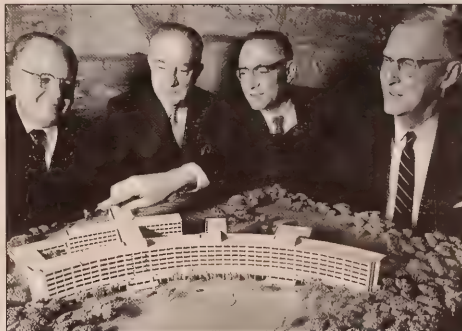


INTERCOM

October 12, 1995

Volume 25, Number 9

University Hospital marks 25 years of growth, service



On the drawing board

This photo from the late 1960s shows a model of The Milton S. Hershey Medical Center complex, as it would look in 1970 when the University Hospital opened its doors. Shown in the photo, from left, are Arthur Whiteinan, president of the Hershey Trust Co., Samuel Hinkle, president and board chairman of Hershey Chocolate Corp., University President Eric Walker and George T. Harrell, the first dean and director of the facility.

It began with a phone call. Not just any call, but one that more than three decades later is still tagged as the "legendary \$50 million phone call." Through that one simple call, The Milton S. Hershey Medical Center's University Hospital — now celebrating a quarter of a century of service — was born.

It was March 1963. Penn State President Eric Walker was invited to a meeting by Samuel Hinkle, then president and board chairman of Hershey Chocolate Corp. and a Penn State trustee. Mr. Hinkle asked him to stop in Hershey, but would not disclose the reason for the visit. When Dr. Walker

arrived, he found himself in a meeting with the board of managers of the M.S. Hershey Foundation.

"Eric," Mr. Hinkle said, "We think Penn State needs a medical school... how much would it take?"

"Look, Sam, you and I are country boys. We can't imagine how much — millions!" Dr. Walker responded. But Mr. Hinkle just deadpanned, "How much?"

Dr. Walker said, "Fifty."

"I think we can get it," Mr. Hinkle said.

See "Hershey" on page 3

Newly formed council to look at strategic planning for University

A University Planning Council has been appointed by President Graham B. Spanier to provide overall guidance to Penn State's strategic planning efforts over the next 18 months. These efforts will lead to the development of strategic plans for the five-year period beginning July 1, 1997.

The council, which will be chaired by John A. Brighton, executive vice president and provost, will review University-wide issues related to priorities, critical processes and structure. The UPC will begin its work by examining the results of the former University Future Process to determine whether changes in direction should be made.

"The University's budget realities of the last five years have placed a greater importance on planning, and integrating the budget process with strategic planning... These budget constraints ... are expected to continue at least over the next few years."

— John A. Brighton
executive vice president and provost

"To make this a successful process, the UPC will seek broad input and communicate widely with the entire University community," Dr. Spanier said. "The Council will be responsible for establishing the general planning and reporting guidelines for the 27 strategic planning units. The principle work of the UPC will be to develop a new five-year strategic plan for Penn State."

The guidelines developed by the UPC will consider alternatives, including continuing internal reallocations, for responding to the University's anticipated funding needs.

"Support for many of our priority initiatives can be achieved only through the continuing assessment of existing resource allocations," Dr. Spanier said.

At the same time that the UPC is being formed, a Budget Strategies Committee has been named.

"The University-level income and expense projections developed last spring by the senior vice president for finance and business clearly present the fiscal challenges that Penn State faces as we strive to move forward over the next five years," Dr. Spanier said. "A separate Budget Strategies Committee will be asked to investigate alternative strategies for developing and managing the Uni-

See "Planning council" on page 12

Inside



Photographer to speak

The photo on the left was taken by Philadelphia artist Donald Camp, who will lead a seminar discussion on art and literature/images of African-American males on Wednesday, Oct. 18. For information on more lectures, turn to pages 4 and 5.



Cooled up

Penn State researchers are designing solutions that make it easier for poultry to breathe. The new airflow systems also improve air quality for workers. See story on page 11.

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Faculty/Staff Alerts

Computer outage impacts registrations

Computer problems at the State College office, Continuing and Distance Education may have erased a number of registrations for courses and seminars received during the period from Sept. 15 through 25.

Without information, people who enrolled may, in fact, not appear on the class roster.

Ron Avillion, director of the State College office, is asking everyone who registered by phone, in person or by mail during that time period to contact the office to verify the registration information.

Those concerned can call Kristy Catalano at (814)863-0685, Monday through Friday, from 8:30 a.m. to 4:30 p.m.

Omicron Delta Kappa seeks alumni members

Omicron Delta Kappa Society is searching for alumni members in the University community. If you are an initiated member and interested in learning about the activities of this circle, call (814) 865-3166.

Programs available

■ **Recommit to a Fresh Start**
If you've quit smoking but have experienced a few "slips," this class is for you.

Meets Mondays and Wednesdays, 12:30-2 p.m. from Oct. 23 until Nov. 1 in 109 Physical Plant Building. Cost is free.

■ Culinary Hearts Kitchen

In this hands-on program, learn how to cut fat, cholesterol and calories and explore ways to enhance your meals by using seasonal ingredients to add flavor and pizzazz. Meets Thursdays, 4-6 p.m., Oct. 26-Dec. 7 (excluding Thanksgiving). Cost is \$40, reimbursable to HMO participants.

■ Enlightening Lunch — Flexible Health Care Reimbursement: The Pre-tax Advantage

If you want to understand how the flexible health care reimbursement accounts work, come to this brown-bag discussion. Meets Thursday, Oct. 26, from noon-1 p.m. in 110 Henderson Building (The Living Center). Cost is free.

To register for these programs, contact Jan Hawbaker at 865-3085 or JQH3@psuadmind.



Good news for the airport

Robert C. Finley, assistant to the vice president for business and operations, right, details plans for the \$4.6 million in federal funds to be given to the University Park Airport. U.S. Rep. William Clinger, R-Warren, left, joined Mr. Finley at the airport for the official announcement of the funding, which will be used to pay for the first phase of a runway expansion project.

Photo: Richard Ackley

Mobil Corp. vice president honored as 1995 Alumni Fellow

Anthony Silvestri, vice president of Mobil Research & Development Corp. and general manager for Environmental Health and Safety at Mobil Oil Corp., has been named a 1995 Alumni Fellow. The award is the most prestigious honor given by the Alumni Association.

The Eberly College of Science will be host for a three-day visit by Dr. Silvestri from Oct. 25-27, during which he will interact with students, faculty and administrators.

Dr. Silvestri received a bachelor's degree in chemistry from Villanova University in 1958 and a doctoral degree in chemistry from Penn State in 1961. Upon leaving Penn State, he joined Mobil as a research chemist at the company's Paulsboro Research Laboratory in New Jersey.



Anthony Silvestri

During his career with Mobil, Dr. Silvestri has worked in the areas of catalysis, catalytic processing, the production of synthetic fuels and the formulation of lubricants and fuels. Mobil promoted him to manager of analysis and special technology in 1973, to manager of catalysis research at its Central Research Lab in 1975, to manager of process research and development at its Paulsboro Research Laboratory in 1977, and manager of planning coordination in the Research and Engineering Planning Department at the company's New York offices in 1979.

In 1980, he was named manager of the Process Research and Technical Service Division at Paulsboro, and 1984 became manager of the Products Research and Technical Service Division. He was named to his current position of vice president in 1989.

The Alumni Fellow Award, presented by the Penn State Alumni Association, is administered in cooperation with the academic units. The Board of Trustees has designated the title of Alumni Fellow as permanent and life-long.

Harrisburg makes some changes in its administration

Changes in the organizational structure of Penn State Harrisburg went into effect Oct. 1.

John G. Bruhn, Harrisburg provost and dean, announced that Howard Sachs, currently serving as acting associate provost and dean of the faculty, will return to his full-time position as associate dean of Research and Graduate Studies. Dr.

Sachs has served both offices since February 1994, and will continue to assume major responsibilities at the campus.

In order to make the functioning of the administration less cumbersome, the associate provost and dean position will not be filled, and a formal search will be initiated to fill a new position of associate dean of

Undergraduate Studies. This new position makes Penn State Harrisburg's organization more parallel to other Penn State colleges and complements the responsibilities of the associate dean for Graduate Studies.

Additionally, David Hansen, currently assistant to the associate provost, will become assistant to the provost and dean.

Hershey

continued from page 1

Seven years later on Oct. 14, 1970, Pennsylvania's first new medical school/hospital in 60 years admitted its first patient.

University Hospital, which marks its 25th year of existence on Saturday, has grown from a 350-bed teaching hospital on 100 acres of donated property, to a sprawling 590-acre campus with a 504-bed University Hospital that still embraces the education of health care personnel as its primary mission.

Headed by George T. Harrell Jr., combination physician, educator, planner, recruiter, fund-raiser and scientist from the University of Florida's J. Hillis Miller Health Center, the new medical center housed the first department of family and community medicine in the nation and the first department of humanities in a college of medicine.

"We took a risk on some of these things, with no idea of how they would be accepted," Dr. Harrell, now 87, said in an interview from his North Carolina home. "It was a culmination of ideas that began when I was a resident in the late '30s at Duke. It was a building that was designed around the needs of the students and one that has been replicated by other institutions across the country."

At the time, The Hershey Medical Center complex was touted as one of the "most highly automated health institutions in the nation." The campus of the Medical Center, valued at more than \$65 million in 1970, included the Medical Sciences Building, University Hospital, 50-acre animal research farm, helicopter pad site, steam plant, laundry and 248 apartments for students, interns and residents. Stretching the length of 2 1/2 football fields, the Medical Center was somewhat of an oddity, located 110 miles from its institution and plunked down in the middle of Pennsylvania Dutch country.

But that didn't seem to affect enrollment. Figures for the fall of that year show that 211 medical students were attending, as well as 46 graduate students. At a time when the 88 existing medical schools in the United States and Puerto Rico were home to just 32,000 students, and a serious national shortage of physicians was looming on the horizon, Hershey was drawing a good share of the available brain trust.

Penn State was the first college of medicine in the country to have an animal research farm on campus. The animal research farm and central animal quarters are known internationally for their humane treatment of animals. It was at this farm, also 25 years ago, where Dr. William S. Pierce and his team of engineers and physicians began a pioneering, world-class program in artificial heart research.

Today, The Hershey Medical Center is a still-expanding teaching, research and health-care facility. In the last two decades, University Hospital has added an eight-floor cancer wing providing 36,000 additional square feet of laboratory space for fundamental cancer research. The Medical Sciences Building received a boost of 58,000 square feet in 1982 from the construction of a nine-story building addition that houses custom-designed laboratories for the clinical science departments.

In 1989, a 60,000-square-foot University Physicians Center was added to the complex, and a Children's Hospital within the University Hospital became a reality in 1991.

That same year, an expansion known as the South Addition of the University Hospital was constructed and in May 1992, the University Recovery Center, an alcohol and drug treatment



Hershey Firsts

Although the University Hospital is celebrating 25 years of existence, the College of Medicine's accomplishments are closely tied to its history. A listing of "firsts" for both entities follows:

- The University Hospital was the first in the nation to design virtually all single rooms and was the first to establish an outpatient department of more than 30 clinics, providing service in private office settings.
- Penn State holds the world's record for the longest surviving calf with an air-driven total artificial heart; it also holds the record for the world's longest surviving calf with an electric motor-driven totally artificial heart.
- The world's first long-life, rechargeable pacemaker was developed at Penn State.
- Researchers at Hershey were the first to investigate the early biochemical changes which occur during compensatory growth of the lung following partial pneumectomy. Understanding these changes is important to future research of the mechanisms which underlie the response of the lung to injury.

program, was established. In the fall of 1992, a 256,000-square-foot academic facility known as the Biomedical Research Building was built at a cost of \$46.3 million. Overall, biomedical research awards to Hershey scientists have jumped from \$19.4 million in 1987-88 to \$33 million today.

In addition, the Penn State Cardiovascular Center facility was opened, and in 1994, a new Center for Emergency Medical Services and a Center for Sports Medicine and Fitness were added. This fall, the Penn State University Cancer Center was formed. Since 1967, Hershey has graduated more than 2,000 physicians and has conferred more than 400 graduate degrees.

"In less than 30 years, the Medical Center has evolved into a premier academic medical center, one whose prestige and respect is on a par with the most distinguished, longstanding medical research institutions," Dr. C. McCollister Everts, senior vice president for health affairs and dean of the College



The Hershey Medical Center (top of page) as it appears today, and as it appeared in this aerial shot taken in the early '70s.

of Medicine, said. "University Hospital, which has received acclaim this year in several national surveys, is a primary reason for this enviable reputation."

But the Medical Center, like many academic health centers across the country, has not been without its problems. In 1994 it became apparent, in order to stay competitive, the Medical Center would have to undergo an expense reduction plan. By the end of 1994, \$37 million — \$23 million in actual expenses and an additional \$14 million due to an increase in the number of patients — had been saved through an employee-driven effort.

Alliances with several other medical facilities in the region have also resulted in savings for the Medical Center, as well as providing the added advantages of an integrated health care delivery system in Central Pennsylvania.

"Partnerships, such as our Alliance 4 Health, are more than a passing act. They represent the future of health care — shared services, shared costs and tangible savings for patients," Allan C. Anderson, vice president and chief operating officer of the Medical Center and director of University Hospital, said. "Every aspect of health care — from its financing to its technology — has really seen a century's worth of change in the 25 years, since University Hospital first opened its doors."

— Lisa M. Rosellini

A second story on the future plans of the Medical Center with Dr. C. McCollister Everts, senior vice president for health affairs and dean of the College of Medicine, will appear in the Oct. 26 issue of Intercom to cap the monthlong celebration of a quarter of a century of service.

LECTURES

AT&T chief to give talk on telecommunications

Robert E. Allen, chairman and CEO, AT&T, will deliver the 1995 James R. and Barbara R. Palmer Chair Lecture in Telecommunications Studies at 4 p.m. Thursday, Oct. 19, in the Carnegie Cinema on the University Park Campus. The lecture, titled "Information Unbound: Its Riches, Risks and Responsibilities," is sponsored by the Palmer Chair through the College of Communications' Catalyst Center for Information Technologies.

Mr. Allen's lecture will be transmitted by satellite to a nationwide audience of educators, students and communications professionals.

A native of Missouri and graduate of Washburn College, Mr. Allen broke into the communications field in 1957 with Indiana Bell. In 1981 he attended the Harvard Business School's Program for Management Development. After several high-ranking positions with Indiana Bell, Illinois Bell, Bell of Pennsylvania and the Chesapeake and Potomac Telephone Companies, Mr.



Robert E. Allen

Allen joined AT&T in 1983 as executive vice president and chief financial officer. After several promotions, he assumed his current responsibilities as chairman and CEO in 1988.

He is a member of the boards of directors of Bristol-Myers Squibb Company, PepsiCo, Chrysler, the America-China Society, the Council on Foreign Relations and the Baldrige Foundation.

Also, he is on the boards of trustees of the Mayo Foundation and Wabash College.

James R. and Barbara R. Palmer, State College residents and cable television pioneers, created the Palmer Chair in Telecommunications Studies in 1987 with a \$1 million donation. A second gift from the Palmer's in 1987 increased the Palmer Chair endowment to \$1.5 million.

For additional information, contact Christine Templeton, director of alumni and public relations, College of Communications, at (814) 865-8801.

International conference on Spanish set for Oct. 12-14

The Department of Spanish, Italian and Portuguese is hosting an international conference on the acquisition of Spanish as a first or second language today through Saturday, Oct. 14, at The Penn State Scanticon.

Organized and chaired by Ana Teresa Pérez-Leroux and William R. Glass, assistant professors of Spanish, the conference is the first in this country to unite research on child and adult language acquisition with a specific focus on the Spanish language.

The conference will begin this evening with introductory remarks from John Brighton, executive vice president and provost of the University, followed by a plenary address by James Tantoff, professor of linguistics at Cornell University, editor of the journal *Applied Linguistics*, and a Penn State graduate.

On Friday, plenary addresses will be given by Tom Roeper, professor of linguistics at the University of Massachusetts and editor of *Language Acquisition and Studies in Theoretical Psycholinguistics*, and by Bill VanPatten, professor of Spanish at the University

of Illinois, Urbana-Champaign, and editor of the professional series *Directions for Language Learning and Teaching*.

On Saturday, plenary talks will be delivered by Susana López-Ornat, professor of psychology at the Universidad Complutense de Madrid, and Suzanne Flynn, professor of linguistics and second language acquisition at the Massachusetts Institute of Technology and associate editor of *Linguistics Inquiry*.

Internationally recognized scholars in their fields, the invited plenary speakers work on both child and adult language acquisition and represent diverse theoretical orientations in acquisition research. Additionally, 40 other papers will be presented in concurrent sessions throughout Friday and Saturday, treating a variety of topics on grammatical, phonological, discourse and processing aspects of the acquisition of Spanish, as well as classroom issues.

For registration information, contact Chuck Wilson, conference planner, at The Penn State Scanticon (863-5130).

"Urban Works" topic of first Bracken Lecture

Laurie Olin, principal of Hanna/Olin Ltd., will open the 1995-96 John R. Bracken Lecture Series with a lecture "Urban Works" at 8 p.m. Tuesday, Oct. 17, in 101 Classroom Building on the University Park Campus. The Bracken Lecture Series is sponsored by the College of Arts and Architecture Department of Landscape Architecture.



Laurie Olin

Since founding Hanna/Olin Ltd. in 1976, Mr. Olin has been engaged in landscape design and planning consultation to internationally renowned design firms such as Pei Cobb Freed and Partners, Eisenman Architects, Skidmore Owings and Merrill, Hardy Holzman & Pfeiffer and Foster Associates.

His work includes a diverse list of projects: corporate headquarters for Johnson & Johnson, Pitney Bowes and Codex Corp.; urban parks including the refurbished Bryant Park and Battery Park City in New York and Hermann Park in Houston. Mixed-use developments include Playa Vista in Los Angeles; Vila Olimpica in Barcelona; major commercial projects at Canary Wharf and Kings Cross in London; campus planning and design at the University of Pennsylvania, University

of Washington, Case Western Reserve University and Wellesley College, as well as private estates and residential gardens in Ohio, Florida, New York and California.

He is currently an adjunct professor at the Graduate School of Design at Harvard University. He is also a trustee of the American Academy in Rome, a member of the Archi-

tectural Commission of the University of Washington, and a member of the visiting committee to the School of Architecture at the University of Virginia.

Mr. Olin was a member of the faculty of landscape architecture and regional planning at the University of Pennsylvania from 1974-1982, and chairman of the Department of Landscape Architecture at the Graduate School of Design at Harvard University from 1982-1987.

He has received recognition as a Fulbright Fellowship and an Eliot Noyes Fellowship, is a John Simon Guggenheim Fellow and a Fellow of the American Academy in Rome. He is an honorary member of the American Institute of Architects and was elected to the National Academy of Design in 1994.

The lecture is free to the public.

Coal scientist to speak Oct. 13

Leon Stock, a coal scientist and director of the Chemistry Division of the Argonne National Laboratory, is visiting the University Park Campus this week and will deliver the last of the three Peter H. Given Lectures in Coal Science at 9 a.m. Friday, Oct. 13.

The lecture, titled "The Chemistry of Coprocessing," will be given in the conference room of the Coal Utilization Laboratory on Bigler Road. The public is invited to attend.

Dr. Stock holds a joint appointment with the Argonne National Laboratory and the University of Chicago, where he is professor of chemistry. Since 1978, his work has focused on the chemistry of fossil fuels, primarily

structural problems and on the reaction sequences important in the liquefaction and gasification of coals. In 1987, he received the Storch Award of the American Chemical Society for his introduction of novel coal modification strategies to define reaction patterns in highly complex reaction systems.

This is the sixth annual Given Memorial Lectures, established in 1990 to honor the memory of Peter H. Given, a Penn State faculty member from 1961-65 whose research into the geochemistry, molecular structure and organic reactions of coal gained international recognition. Professor Given died in 1988.

Environmental rules feature of lecture

"Understanding Environmental Regulations," a talk by R. Scott Huebner, assistant professor of engineering at Penn State Harrisburg, will be the noon lecture Wednesday, Nov. 1, at the Penn State Downtown Center in Harrisburg.

The lecture will focus on making environmental regulations found in state and federal code more accessible and understandable to public and private sector decision makers. A question-and-answer period will follow the presentation.

More Lectures

Experimental photographer to discuss his work Oct. 18

Donald E. Camp, a Philadelphia conceptual and experimental photographer, will present a public lecture at 3 p.m. Wednesday, Oct. 18, in the Palmer Museum of Art on the University Park Campus. After presenting the lecture, he will lead a seminar discussion on art and literature/images of African-American males/"multiculturalism and tribalism" at 4:15 p.m., in 210 Patterson Building.

Participating Penn State faculty include: **Celeste Fraser Delgado**, Department of English; **Nah Dove**, Department of African and African-American Studies; **Henry Giroux**, College of Education; **William Harris**, Department of English; **David McBride**, Department of African and African-American Studies; **Dan Walden**, Department of English; and **Glenn Willomson**, curator of the collection at the Palmer Museum.

Mr. Camp is a 1995 recipient of a Guggenheim Fellowship, National Endowment for the Arts Fellowship, Pew Fellowship, Trust Fellowship,

Pennsylvania Visual Arts Fellowship, and a 1994-95 resident at the American Academy in Rome. He was honored by the Guggenheim Foundation for his large-scale photographs, titled "Dust Shaped Hearts," in honor of the African-American poet Robert Hayden, and his first publication, *Heart Shapes in the Dust*.

Mr. Camp's work focuses on images of African-American men printed in light-sensitized earth pigments and casein on lithographic paper. He has exhibited his work at the Alternative Museum, New York City, the Philadelphia Museum of Art, Washington Center for Photography, Washington, D.C., and the Sande Webster Gallery, Philadelphia. He received his B.F.A. and M.F.A. from Tyler School of Art, Temple University.

All events are free to the public. The lecture is sponsored by the College of Arts and Architecture School of Visual Arts and the Institute for the Arts and Humanistic Studies. For information call **Micela Amateau Amato** at (814) 865-0444.

Future of academic librarians is subject of Nov. 7 lecture

Geoffrey E. Cleave, an Economics and Business School librarian at the University of Warwick in England, will visit the University Libraries on Nov. 7.

As part of his activities, he will present the lecture "Future Roles for Academic Librarians" at 1:30 p.m. in 401 Pattee Library.

Before serving at the University of Warwick, Mr. Cleave worked at public libraries in the London boroughs of Hillingdon and Sutton and was a Social Science librarian at North Staffordshire Polytechnic.

Two to focus on Beijing conference

Two Penn Staters will discuss their experiences as delegates to the recent U.N. Fourth World Conference on Women at 7 p.m. Monday, Oct. 16, in 101 Agricultural Sciences and Industries Building on the University Park Campus.

Vasundara Varadan, distinguished alumni professor of engineering science and mechanics, and **Dorothea Lemeh**, of the School of Visual Arts, recently traveled to Beijing,

He is a founding member and secretary of the International and Comparative Librarianship Group of the Library Association, a member of the British Business Schools Librarians' Group, and a member of the European Business Schools Librarians' Group.

Mr. Cleave holds bachelor of arts degrees from Southampton University and the Open University, a master of arts degree in economics from the University of Warwick and a post-graduate qualification in librarianship.

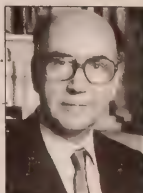
China, to attend the U.N. conference.

After their talk, a panel discussion of area residents will follow. The event is free to the public.

The sponsor is the Soroptimist International of Centre County and co-sponsors are NITraee NOW, AAUW, Central Pennsylvania Women of Color and Penn State Center for Women Students. For more information, contact **Deb Sheaffer** at (814) 865-8301.

Medieval art lecture planned at Palmer

William D. Wixom, Michel David-Weill chairman of the Department of Medieval Art and The Cloisters, The Metropolitan Museum of Art, will present a lecture titled "J. Pierpont Morgan: The Man and The Collector" at 8 p.m. Tuesday, Oct. 17, in the Palmer Museum of Art on the University Park Campus.



William D. Wixom

The lecture is part of the series, "The Fortune of Medieval Art in America," sponsored by the Institute for the Arts and Humanistic Studies, the Center for Medieval Studies and the College of Arts and Architecture Department of Art History.

This lecture series is offered in connection with the upcoming exhibition "Medieval Art in America: Patterns of Collection 1800-1940," which will be shown at the Palmer from Jan. 8 through March 3, and at the Frick Art Museum in Pittsburgh from March 28 through May 26.

Mr. Wixom served as curator at the Cleveland Museum of Art for more than 20 years and, since 1979, has been the head of the Department of Medieval Art and the Cloisters at the Metropolitan Museum of Art.

He has planned and coordinated many exhibitions, including "Treasures from Medieval France" in Cleveland. The Cleveland exhibition resulted in the publication of the exhibition catalog/book *Treasures From Medieval France*. He coordinated the exhibition "The Treasury of San Marco" while in New York. He also has authored numerous articles, most recently "A 13th Century Support Figure of a Seated Friar" in *Wiener Jahrbuch für Kunstgeschichte*. Mr. Wixom has been an adjunct professor at New York University and is a Fellow of the Society of Antiquaries of London.

The lecture series will expand upon selected topics regarding the fortune of medieval art in the United States, alluded to but not fully explored in the exhibition and its accompanying catalogue. Other lectures planned for the fall are: **Marilyn Beaven**, "Wheels and Dealers: American Collectors of Medieval Stained Glass 1905-1930," on Nov. 14, and **William Johnston**, "Henry Walters: The Elusive Collector," on Nov. 28.

The lectures are free to the public.

Litigation and women's health is first talk in lecture series

A lecture by **Karen M. Hicks** on "Litigation and Women's Health: Lessons from the Case of the Dalkon Shield IUD," is the first lecture of the Women's Studies 1995-96 Feminist Scholar Series. The talk is set for 4 p.m. Tuesday, Oct. 17, in the HUB Assembly Hall on the University Park Campus.

Dr. Hicks, associate dean of students at Albright College, for the last 10 years, has taught human sexuality, reproductive rights, women's health and feminist theory. She is a Dalkon

Shield IUD survivor and founder of a national grassroots protest organization which challenged the A.H. Robins Co. during its Chapter 11 litigation between 1986-90. She received her Ph.D. from the University of Pennsylvania in 1990 and has published *Surviving the Dalkon Shield IUD: Women v. The Pharmaceutical Industry*. She is also the editor of *Misdiagnosis: Woman as a Disease*.

For more information, please call the Women's Studies Office at (814) 863-4025.

"Archaeology of Israel" topic of lecture

William Dever, a leading Syro-Palestinian archaeologist, will lecture on "The Archaeology of Israel" at 8 tonight, in the Palmer Museum Auditorium on the University Park Campus.

Dr. Dever, of the University of Arizona, excavated the site of Gezer in the 1960s and '70s.

He is a former director of both the Hebrew Union College-Jewish Institute of Religion and the American School of Oriental Research in Jerusalem.

Dr. Dever's talk is co-sponsored by the Program in Jewish Studies and the Central Pennsylvania Society of the Archaeological Institute of America.

The ARTS

AT PENN STATE

Odyssey on WPSU

Thomas Kasulis, Ohio State professor of philosophy and East Asian literatures, discusses the Zen Buddhist concept of reality with host S. Leonard Rubinstein on the next Odyssey Through Literature broadcast. In Zen Buddhism, reality is neither what we remember nor what we're experiencing at the moment.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Wednesdays at 8 p.m. on WPSU, 91.5 FM.

Dance Theatre of Harlem

Dance Theatre of Harlem will perform at 8 p.m. Friday, Oct. 13, in Eisenhower Auditorium on the University Park Campus. The event, part of the Bright Lights series, is sponsored by the College of Arts and Architecture Center for the Performing Arts.

The program performed will include "Doña," "Adagio," "Medea" and the classic "Doulga." The Theatre of Harlem is part of the School of Dance Theatre of Harlem founded by Arthur Mitchell after the assassination of Martin Luther King Jr. in 1969. Mr. Mitchell sacrificed his own successful dancing career to offer the children of Harlem the same opportunities he had been given. His lifelong commitment to dance has earned him the MacArthur Foundation Honor and the Kennedy Center Honor.

Tickets for the Oct. 13 performance are \$30, \$25 and \$22 for non-students; \$26, \$21 and \$18 for students. Dance Theatre of Harlem is sponsored in part by Philip Morris Companies Inc.

For ticket information contact the Arts Ticket Center at (814) 863-0255 or (800)ARTS-TIX.

International Film Series begins at Behrend

Penn State Erie, The Behrend College is holding an International Film Series as part of a University-wide celebration of Hispanic Heritage Month. Four films representing viewpoints from Spain, Cuba and Brazil will be presented on a series of Monday evenings at 7 p.m., beginning Oct. 16. The films, which are free to the public, will be shown in Reed Lecture Hall, Reed Union Building. The festival includes *Belle Epoque*, Oct. 16; *Strawberry and Chocolate*, Oct. 30; *Donna Flor and her Two Husbands*, Nov. 6; and *The Holy Innocents*, Nov. 13.

"American Emblems"

"American Emblems," a concert by the Penn State Symphonic Wind Ensemble, will be presented at 8 p.m. Monday, Oct. 16, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. The concert will feature instrumental works by American-born composers who, through their music in many mediums, have become emblematic of American contributions to art music worldwide.

The Penn State Symphonic Wind Ensemble is a group of wind and percussion students from the School of Music. School of Music wind and percussion faculty include Eleanor Armstrong, flute; Tim Hertz, oboe; Smith Toulson, clarinet; Daryl Durrant, bassoon; Dan Yoder, saxophone; John Daniel, trumpet; Lisa Bontrager, horn; Mark Lusk, trombone; Marty Erickson, euphonium and tuba; and Dan Armstrong, percussion. Conductor of the Symphonic Wind Ensemble is Richard Bundy.

The concert is free to the public.

"Capitol Steps"

The Undergraduate Student Government will present Capitol Steps, a musical political satire troupe, at 8 p.m. Wednesday, Oct. 18, in Schwab Auditorium on the University Park Campus.

Capitol Steps, a group of former Congressional staffers who travel the country satirizing the people and places that once employed them, has recorded 15 albums in the last 13 years.

Free tickets are available in rooms 215 and 225 HUB. Limit of two per person.

Castalia Trio fall concert

The Castalia Trio will present its fall concert at 8 p.m. Wednesday, Oct. 18, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Donald Hopkins, viola, will join the Castalia Trio for a performance for the Quartet in C minor op. 15 by Gabriel Fauré.

Mr. Hopkins and the Castalia Trio that unites James Lyon, violin; Kim Cook, cello; and Marylene Dosse, piano, are on the faculty of the School of Music. The concert is free to the public.

Gregory Peck at The Carnegie

Academy Award winner Gregory Peck will recite "Horseman, Pass By," a profile of William Butler Yeats in



The Dance Theatre of Harlem will perform at 8 p.m. Friday, Oct. 13, in Eisenhower Auditorium on the University Park Campus.

poetry and song, at 8 p.m. Wednesday, Oct. 18, at The Carnegie in Pittsburgh. The event is co-sponsored by the Penn State Fayette Campus and Seton Hill College.

Tickets are available at the door and in advance, and group discounts are available. General admission tickets are \$20, and student/senior citizen tickets are \$15. For more information, call (412) 621-9893.

Bach's Lunch

The Penn State Concert Choir, under the direction of Douglas Miller, professor of music, will perform for the Bach's Lunch concert series at 12:10 p.m. Thursday, Oct. 19, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The Concert Choir consists of 64 singers. Two-thirds of the singers are music majors and the rest are from other majors at Penn State.

The audience may take a brown bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided. The concert is free to the public.

Poet to speak at Fayette

Naomi Shihab Nye, nationally acclaimed poet, teacher, essayist, anthologist, songwriter and singer, will present a program at the Penn State Fayette Campus at 7 p.m. Thursday, Oct. 19, in the J. Lewis Williams Building.

The event is free, but tickets are required and can be obtained by calling (412) 430-4125.

In addition to Thursday's program, the campus Office of Continuing Education will sponsor "A Morning's Conversation About Writing," an informal workshop with Ms. Nye, from 9-11 a.m. Friday, Oct. 20. There is a \$20 charge for this event. To register, call (412) 430-4211 by Oct. 17.

Interactive photographic exhibit

The HUB's Art Alley cases on the University Park Campus will feature an interactive photographic exhibit sponsored by the Pennsylvania Heritage Affairs Commission's Office of Folk-life Programs through Oct. 22.

The exhibit features photographs by Jane Levine which chronicle the successes of the Apprenticeships in Traditions Arts program (ATA). The ATA is a program which matches children with a master artist to facilitate an appreciation of traditional arts. Several features of the exhibit are specially designed to engage young people in the process of learning about traditional arts, including a children's treasure hunt guide to the exhibit.

The HUB's Art Alley cases are on the first floor of the HUB and are open during all HUB operating hours.

Artist Talk Series

The HUB and Kern Art Galleries present the Artist Talk Series for fall of 1995, which include the following artists at the HUB on the University Park Campus:

Sam Chaar, woodcarver, on Nov. 1; Janice Gainer, a figurine artist, on Nov. 8; and Fran MacEachern, a fiber artist, on Nov. 15. At Kern Building, a student of photography, Katarini Farizek, will speak on Nov. 29.

The Artist Talk Series are from noon-1 p.m. Wednesdays. The public is invited.

Art auction at Allentown

An art exhibition and auction to benefit the Penn State Allentown Campus scholarship fund will be held on Saturday, Dec. 2, at the Penn State Allentown Campus. The Heisman Fine Arts Gallery Inc., will conduct the auction. A preview of all works and silent auction for Penn State sports items and memorabilia will begin at 7 p.m. The auctioneer will begin at 8 p.m.

Tickets are available at \$15 each or two for \$25 by calling (610) 285-5000.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, October 12

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Clarinet Choir.

Third International Symposium on the History of Art Education, 1 p.m. and continue through Oct. 15. Commemorates the 30-year anniversary of "A Seminar in Art Education for Research and Curriculum Development" held at Penn State in 1965. For information call (814) 865-8570.

Continuing and Distance Education, 7 p.m., Penn State Scenic. George J. Demko will speak as part of Geography Department's 50th anniversary celebration on "Global Landscape of Danger: A Geographer's Perspective." For reservations call (800) PSU-TODAY. Reception and book signing to follow lecture.

Distinctive Styles, 8 p.m., HUB Fishbowl. "One Alternative," trio of two guitarists and an obol/English horn player, offers classical, folk, jazz and popular styles. Marker Lecture in Physical Sciences, 8 p.m., 112 Kern Bldg. Hans Albrecht Beithe on "The Atomic Bomb."

School of Music, 8 p.m., Recital Hall. Eleanor Duncan Armstrong, flute.

Friday, October 13

Fall Alumni Weekend, through Oct. 15. Peter H. Given Lecture in Coal Science, 9 a.m., Coal Utilization Laboratory Conference Room. Leon Stock on "The Chemistry of Coprocessing."

Center for Locomotion Studies, 10:30 a.m., 101 Old Main. Peter Cavanagh on "Falls in the Elderly: Prediction, Perturbation, and Prevention."

Gallery Talk, 3 p.m., Christoffers Lobby, Palmer Museum of Art. Kay Picart on "Asian Art at the Palmer Museum."

Geography's Coffee Hour, 3:30 p.m., 28 Hostler Bldg. Peter Haggert on "On Choosing Research Topics: Design vs. Accident."

Marker Lecture in Physical Sciences, 3:30 p.m., 111 Wartik Lab. Hans Albrecht Beithe on "Supernovae."

Center for Performing Arts, 8 p.m., Eisenhower Auditorium. Dance Theatre of Harlem. For tickets call (814) 863-0255.

Saturday, October 14

Fall Alumni Weekend, through Oct. 15. Office for Minority Faculty Development Workshop, 9 a.m.-noon, 114 Kern Bldg. Blannie Bowen on "Promotion and Tenure." For reservation, call Mary Leone at (814) 863-1663.

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Efram Burk on "Photographs from the Permanent Collection." Center for the Performing Arts, 8 p.m., Schwab Auditorium. Kandsky Trio, "Tales of Appalachia." For tickets call (814) 863-0255.

Sunday, October 15

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Cheryl Sny on "Looking at You: Portraits at the Palmer Museum."

Film, 2 p.m., Palmer Lipcon Auditorium. "Africa: The Magnificent African Cake."

Monday, October 16

Scorpiot International of Centre County, 7 p.m., 101 St. Yasundara Varadan and Dorothea Lemeh will discuss their experiences as delegates to the U.N. Fourth World Conference on Women.



The world premiere of composer Mike Reid's "Tales of Appalachia" will be performed by the Kandsky Trio and storyteller Connie Regan Blake at 8 p.m. Saturday, Oct. 14, in Schwab Auditorium on the University Park Campus.

School of Music, 8 p.m., Recital Hall. Penn State Symphonic Wind Ensemble.

Tuesday, October 17

Women's Studies Program, 4 p.m., HUB Assembly Hall. Karen M. Hicks on "Litigation and Women's Health: Lessons from the Case of the Dakin School IUD." Landscape Architecture, 8 p.m., 101 Classroom Bldg. Laurie Clin on "Urban Works." Art History, 8 p.m., Palmer Lipcon Auditorium. William D. Wixom on "J. Pierpont Morgan: The Man and The Collector."

Wednesday, October 18

Green Architecture, noon, 210 Engineering Unit D. A special series on "Designing with Nature: Underground Houses." Bring your lunch.

Lecture, 3 p.m., Palmer Museum. Donald E. Camp, Philadelphia photographer, will speak. After lecture he will lead a discussion on art and literature/images of African-American males/multiculturalism and tribalism.

Undergraduate Student Government, 8 p.m., Schwab Auditorium. Capitol Steps, a musical political satire troupe. Free tickets at 215 and 225 HUB.

School of Music, 8 p.m., Recital Hall. Castalia Trio.

Thursday, October 19

Bach's Lunch Concert, 12:10 p.m., Eisen-

hower Chapel. Penn State Concert Choir.

Palmer Chair Lecture in Telecommunications Studies, 4 p.m., Carnegie Cinema. Robert E. Allen on "Information Unbound: Its Riches, Risks and Responsibilities." Historic Landscape Issues Forum, 7 p.m., The Penn State Scenic. "Asset or Liability: History in Your Community," a program bringing together a national panel of experts focusing on the issues surrounding historic preservation and restoration in present-day communities. 10 admission fee.

Lecture, 7:30 p.m., Palmer Lipcon Auditorium. Wayne Miller on "A Life of Photography."

Friday, October 20

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "African Headsets."

Office for Minority Faculty Development Workshop, 3 p.m., Penn State Room, Nittany Lion Inn. "Moving From Associate to Full Professor." Call 863-1663 to register.

Geography Coffee Hour, 3:30 p.m., 206 Walker Building. Susan Squier on "Fetal Subjects and Maternal Objects: Reproductive Technology and the New Fetal/Maternal Relation."

Lecture, 7:30 p.m., Palmer Lipcon Auditorium. Stefan Loran on "Society for Photographic Education Conference."

Lady Lion Volleyball Facility/Staff Night, 7:30 p.m., Rec Hall. PSU vs. Michigan. All faculty and staff and a guest are admitted free of charge.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Crazy for You." For tickets call (814) 863-0255. Also, Saturday, October 21, 3 and 8 p.m. Lecture, 8 p.m., Palmer Lipcon Auditorium. Stefan Loran, whose contribution to the history of photographic literacy is universally acknowledged, will speak about his life.

Sunday, October 22

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Efram Burk on "Wayne Miller's Hiroshima."

Film, 2 p.m., Palmer Lipcon Auditorium. "Africa: The Rise of Nationalism."

Program in Jewish Studies, 8 p.m., Palmer Museum Auditorium. William Dever on "The Archaeology of Israel."

SEMINARS

Thursday, October 12

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Dewey Lab. Jorge Pullin on "A Rigorous Solution to the Quantum Einstein Equations."

The Population Research Institute, noon, 406 Oswald Tower. Carol Worthman on "Human Endocrinology of Human Reproductive Ecology."

Graduate Program in Nutrition, 4 p.m., 110 Wartik Lab. Brian W. Tobin on "Metabolic and Nutritional Consequences of Pancreatic Islet Transplantation."

Jewish Studies, 8 p.m., Palmer Lipcon Auditorium. William Dever on "Archaeology of Israel."

Friday, October 13

Economics, 3:30 p.m., 123 Chambers. John Geweke on "Bayesian Comparison of Economic Models."

Agronomy, 3:35 p.m., 107 ASI. Louis Saparito on "Evaluating Spatial and Temporal Nutrient Balance Changes on a Central Pa. Dairy Farm."

Aerospace Engineering, 3:35 p.m., 215 Hammond Bldg. R.E. Newnham on "Smart Materials."

Monday, October 16

Plant Pathology, 3:30 p.m., 112 Buckhout. Jo Handelsman on "Biology Brought to Life: A Case for Local Action and Global Thinking."

Tuesday, October 17

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Deborah Leckband on "Molecular Forces and Mechanisms Determining the Strength of Receptor-Mediated Adhesion."

Biology, 4 p.m., 8 Mueller Lab. Agnes Ayme-Southgate on "To Stretch or Not to Stretch: The Roles of Drosophila Projectin."

Food Science, 4 p.m., 201 Borland Lab. Dane Bernard on "Global Implications of HACCP."

Geosciences, 4 p.m., 341 Deike. Hydrosciences candidates will be speaking.

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Jay Whelan on "Advances in Dietary Arachidonic Acid Research."

See "Calendar" on page 8

Calendar

continued from page 7

SEMINARS

The Center for Adult Learner Services, 6-8 p.m., HUB Gallery Lounge. "Student Aid: Making Money Stretch." Also, Wednesday, Oct. 18, noon-2 p.m.

Wednesday, October 18

■ Center for Russian and East European Studies, noon, 102 Weaver Bldg. Victor Isralian on "Inside the Kremlin During the Yom Kippur War"

■ Australia-New Zealand Studies Center, 12:05 p.m., 201 Kern Bldg. Neal M. Ashkanasy on "An Australian View of the American Management Model."

Biology, 12:20 p.m., 111 Tyson. Julian Schroeder on "Signal Transduction in Guard Cells and Molecular Bases of Plant Potassium Nutrition"

History, 4:30 p.m., 102 Weaver Bldg. Jonathan Spence on "Heaven on Earth: Triumphs and Travails of the Taiping Heavenly Kingdom."

Thursday, October 19

Economics, 2:30 p.m., 413 Kern. Neil Ericsson on "Lucas Critique in Practice: Theory Without Measurement."

CONFERENCES

Thursday, October 12

■ International Conference on the Acquisition of Spanish, Penn State Scanticon. Through Oct. 14.

Friday, October 13

Penn State Education Summit: Collaborating for the Planned Curriculum, Penn State Scanticon.

African American Alumni Interest Group, through Oct. 14. For information, call Cheryl Stringer, (814) 865-3376.

Monday, October 16

Impact of Work on Older Individuals, Penn State Gerontology Center Conference, The Penn State Scanticon. Call (814) 863-5175 to register

Sanitation Short Course, 90 attendees, Nittany Lion Inn. Through Oct. 18

Saturday, October 21

Society for Photographic Education Conference, 10 a.m.-5 p.m., Palmer Lipton Auditorium. To register, call (814) 865-7672.

Sports Nutrition for Young Athletes — A Guide for Parents, 8:30 a.m., The Penn State Scanticon. Kristine Clark will be instructing the workshop. Call (814) 865-0287.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-8 a.m.

"Performance Today," Mon.-Fri., 9-11 a.m.

"All Things Considered," Mon.-Fri., 4-7 p.m.; Sat. & Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m.

"Fresh Air with Terry Gross," Mon.-Fri., 7-8 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein,"

Weds., 8 p.m.

"Car Talk," Fri., 8 p.m. and Sun., 6 p.m.

"Living On Earth," Mon., 8 p.m.

"Inside Europe," Sat., 4:30 p.m.

"The Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

HUB Browsing Gallery:

Oil paintings by Joanne Landis, through Oct. 22. Paintings consist of abstract impressionism full of round female forms in vivacious colors

HUB

Formal Gallery:

Paintings by Frank Diaz Escalot, through Oct. 21. Paintings reflect lifetime experiences.

Art Alley:

Photographs by Jane Levine which chronicle the successes of the Apprenticeships in Traditions Arts Program. Through Oct. 22.

Kern Exhibition Area:

Wooden brooches by Vicki Sellers, through Oct. 24.



The Undergraduate Student Government will present the political satire "Capitol Steps" at 8 p.m. Wednesday, Oct. 18, in Schwab Auditorium on the University Park Campus.

Jewelry by Shirley Greenlaw, through Oct. 15. Jewelry is made of line porcelain.

Photography of Genevieve Dufang, through Oct. 24.

Palmer Museum:

■ "Sleeping Beauties: African Headrests from the Jerome L. Joss Collection at UCLA," through Dec. 3.

■ "Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10, 1996.

Pattee

Maps Room (202C):

■ "Maps and the Columbian Encounter," maps and illustrations from the 13th through the 17th centuries, through Oct. 23

East Corridor Gallery:

■ "Visual Meditations," by Greta Ehrig. Using oil, watercolor, and pencil on floral subjects. Through Oct. 31.

Zoller Gallery:

■ "Terrestrial Bodies," through Nov. 5. Features an eclectic group of 13 New York city artists.

■ Reflects an international perspective

TIPS

Information Penn State

Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather — 234; Arts Line — 345; University Calendar — 456.

College of Science granted \$2.7 million from grad's estate

The Penn State's Eberly College of Science has received its second-largest gift for scholarships ever, a \$2.7 million bequest from the estate of Nellie H. Roberts. A partial distribution of \$2.1 million has already been received. The gift will be used to endow undergraduate and graduate scholarships in the departments of Physics and Chemistry.

The college will name the scholarships for the donor and her late husband, Oscar L. Roberts. Both were graduates of the University: Nellie, in 1929 with a master's degree in home economics, and Oscar in 1929 with a doctoral degree in chemistry. Nellie Roberts spent most of her life in the Philadelphia area, where she taught school for 32 years. Oscar Roberts was a chemist who died during a laboratory explosion while working for Atlantic Richfield, now ARCO, in 1944.

A native of the state of Indiana, Mrs. Roberts fondly remembered her years at Penn State, and frequently stated to friends that she would "take care of Penn State" when she passed away.

Nellie Roberts created the Roberts scholarships by providing in her will that upon her demise, a percentage of her estate would be awarded to the University. She died last April in Indiana.

The University will invest the \$2.7 million Mrs. Roberts designated to endow the scholarships. A portion of the annual return will be used for student support, and the remainder will be retained in the principal as protection against inflation.

Penn Staters

Mary S. Mander, associate professor of communications, was a panelist at the meeting of the International Association for Mass Communication Research in Portoroz, Slovenia. She participated in a panel on news agencies of the nineteenth century as early forms of media globalization. The trip was partially underwritten by the Office of International Cooperative Programs.

Gary L. Mullen, professor of mathematics, is editor-in-chief of a new journal, *Finite Fields and Their Applications*, the first issue of which was published in January 1995 by Academic Press.

Dr. Mullen spoke on "Open Problems in the Theory and Application of Finite Fields" at the Third International Conference on Finite Fields and Applications in Glasgow, Scotland. During the R. C. Bose Memorial Conference on Statistical Designs and Related Combinatorics, he gave a talk titled "Orthogonal Hypercubes and Emerita Designs."

Della M. Roy, professor emerita of materials science at the Intercollege Materials Research Laboratory, has been appointed to a committee of the National Academy of Science/National Research Council Board on Radioactive Waste Management. The committee is to provide a review of New York State's siting and methodology selection for low-level radioactive waste disposal. She also has been appointed a member of the National Academy of Engineering Membership Policy Committee.

Innovation in Learning projects doing well

Now in its first year of operation, the Institute for Innovation in Learning sponsors projects that introduce active and collaborative learning into the classroom. Innovation projects completed, underway or planned involve the faculty from six campuses and six different colleges. Typically, the instructors in these courses design assignments involving student teams working on research projects or course assignments.

The first projects completed last spring in chemistry, agricultural economics, individual and family studies, and health policy administration showed promising results. In an introductory chemistry course, **Joseph Keiser**, lecturer, substituted 17 independent research projects for "canned" laboratory experiments. In two honors sections of an organic chemistry laboratory, **Robert Minard**, lecturer, assigned 10 teams of students to use a molecular modeling/computation system. They compared their predictions with laboratory results for five different chemical reactions and learned to use an important new tool of chemical research. One student wrote in evaluation: "It gives you a sense of power to create molecules and compounds, be able to predict results and then verify those results experimentally."

This fall, nine innovation projects are under way. They range in focus

Faculty proposals sought

The Institute for Innovation in Learning is soliciting faculty proposals for designing experiments in active and collaborative learning in undergraduate courses for the 1996-97 academic year. Faculty will receive advances cognitive skills in problem solving and knowledge application rather than recall. Collaborative learning uses student teamwork to achieve higher academic performance.

The institute plans to sponsor 30 or more faculty projects in the com-

ing year. Support includes the funding of student interns, small grants (under \$750), instructional design consultants and team-training resources.

Faculty selected will join the more than 20 Fellows already working with the Institute.

The deadline for Fall 1996 projects is Nov. 1. The deadline for Spring 1997 projects is March 1. For application forms and further information, call (814) 865-8681 or E-mail ill@psu.edu.

from **Robert Avanzato's** introductory robotics course at the Penn State Abington-Ogontz Campus in which student teams design, build and program model robots for national competition; through **Charles Kennedy's** political science course at the Penn State York Campus that uses simulations of political decisions to enhance critical reasoning skills; to an advanced course in organic chemistry coordinated with a library research course to improve student skills in using computer-aided chemical literature searches taught by **Nan Butkovich** and **Robert Minard**.

Marilyn Eastridge and **Robert Eisenbraun**, both assistant professors of exercise and sports science, are

using student teams to design instructional units in physical education for high school students; and **Barbara Grabowski**, associate professor of education, and **William Harkness**, professor of statistics, are developing cooperative student team activities in a large, traditionally all-lecture course in statistics.

The institute has scheduled 10 projects for the Spring Semester. One program in computer science, devised by **Joseph Lambert**, head and associate professor of computer science, involves teams of lower-division students led by seniors. The teams will apply computer hardware and software to business and educational problems. The program is co-spon-

sored with the Leonhard Center and the Department of Computer Science. A second course project with the Leonhard Center links instructional systems graduate students as course design consultants with faculty conducting innovations.

In addition, plans are under way to initiate an experimental summer academy for incoming freshmen in 1996. It will explore ways to introduce new students to collaborative learning and the use of computers in inquiry and student-initiated research. This project is co-sponsored with the Office of Summer Sessions, the Leonhard Center and the departments of English and Speech Communication. A student organization, called "The Learning Force," aids the institute in finding promising innovations for development and support. Members undergo training in team-building and team-managing skills so they can serve as consultants to the faculty and students who wish to experiment with active and collaborative learning.

The institute conducts biweekly workshops with faculty undertaking or contemplating projects in active and collaborative learning. These meetings are linked electronically with the Commonwealth Educational System campuses. Co-sponsors with the Leonhard Center, a series of conversations on issues in pedagogy and learning. The institute will move into new offices on the third floor of Rider II building this December.

Promotions

Staff

Timothy C. Fake, senior network analyst at The Hershey Medical Center.
Cynthia D. Fetters, staff assistant VI in College of Education.
Shannon L. Fitzgerald, staff assistant VI in College of Earth and Mineral Sciences.
Carol A. Foster, staff assistant VI in Research and Graduate School.
Laurel E. Frye, staff assistant VI in Office of the President.
Lisa K. Fusso, staff assistant V in College of Engineering.
Tricia L. Gabany-Guerrero, advising program coordinator in Office of the President.
Cheryl A. Gales, staff assistant VII at The Hershey Medical Center.
Thomas E. Gavazzi, assistant operations supervisor in Computer and Information Systems, Center for Academic Computing.
Anna M. Gearhart, communications analyst II in Computer and Information Systems, Telecommunications.
Blair E. Gill, assistant campus registrar at The Hershey Medical Center.
Gerald G. Goff, coordinator, Advising and Promotional Programs, in Continuing and Distance Education.
Lydia R. Grimm, staff assistant V in Housing and Food Services.
Barbara B. Gummo, proposal and grant assistant in The Smear College of Business Administration.
Terril A. Gummo, staff assistant V in College of Communications.

Jane A. Gush, staff assistant V in Office of Physical Plant.
Karen R. Haldeeman, staff assistant V in Student Affairs.
Michael D. Herr, senior technician, Research, at The Hershey Medical Center.
Dave C. Hollen, senior microcomputer systems consultant in Computer and Information Systems, Center for Academic Computing.
La Rue M. Jacobs, staff assistant VI in College of Engineering.
Mary Kelly, accountant in Applied Research Lab.
Molly A. Kline, staff assistant V in Computing and Distance Education.
Christy E. Kohler, senior extension agent in College of Agricultural Sciences.
Patricia A. Light, clinical head nurse at The Hershey Medical Center.
James R. Malin, assistant director, Alumni Relations, at Penn State Harrisburg.
Julie A. Martinez, student insurance specialist in Student Affairs.
Doris A. McCool, administrative assistant II in The Smear College of Business Administration.
Jennifer B. Morris, assistant to the Dean in College of the Liberal Arts.
Michele W. Moslak, staff assistant VI in College of Education.
Theresa K. Musser, management assistant II in Office of the President.
Marcia L. Newell, staff assistant VI at

Penn State DuBois Campus.
Susan M. Osman, manager, Human Resources, in College of Education.
Sara L. Peterson, staff assistant VI in College of Earth and Mineral Sciences.
Linda E. Pierce, coordinator, Human Resources Services, in Office of Human Resources.
Dawn M. Praskovitch, staff assistant V in Office of the President.
Thomas W. Rhodes, supervisor, Mushroom Test Demonstration Facility, in College of Agricultural Sciences.
Laura V. Rinehart, administrative assistant I at The Hershey Medical Center.
Bobbie L. Robinson, staff assistant V in College of Education.
Jill M. Tomko, staff assistant V at The Hershey Medical Center.
Erin D. Weaver, staff assistant IV in Housing and Food Services.
Sidney M. Garber, mixer, Bakery, in Housing and Food Services.
James R. Myers, director, Facilities Management Programs, in College of Engineering.
Linda L. Odland, bindery worker in Business Services.
Rosalie Rivera, unit coordinator, Expanded Food and Nutrition Education Program, in College of Agricultural Sciences.
Penny A. Royer, staff assistant IV in Business Services.
Mary Ann E. Shultz, baker, Utility, in Housing and Food Services.

Theresa N. Shunnara, staff assistant VI at The Hershey Medical Center.
Gale J. Siegel, director, Student Affairs II at Penn State Abington-Ogontz Campus.
Gloria D. Sigel, bindery worker in Business Services.
Robin L. Stevens, program coordinator in The Smear College of Business Administration.
Donna I. Stevey, staff assistant VI at The Hershey Medical Center.
Maurice H. Stroemel, technical supervisor in College of Arts and Architecture.
Claudia J. Taylor, staff assistant V in College of Engineering.
Anna F. Tilberg, research support associate at The Hershey Medical Center.
Vincent L. Timbers, information analyst in Office of the President.
Irene L. Tocimack, staff assistant VI in University Libraries.
Karen A. Tomich, staff assistant VI at Penn State Beaver Campus.
Kathleen C. Tucker, coordinator, Professional Fees, at The Hershey Medical Center.
Sandra L. Uzmack, coordinator, Administrative Support Systems in College of Arts and Architecture.
Tammy S. Walmer, clinical head nurse at The Hershey Medical Center.
Barbara L. Welshofer, advising program coordinator in College of the Liberal Arts.

Awards

Eberly College honors two with Distinguished Service Award

Suzanne Sinclair Grieb and Howard Groth are the recipients of the 1995 Eberly College of Science Alumni Society Distinguished Service Award, the alumni society's highest honor.

Established in 1979, the Distinguished Service Award is presented annually to individuals who have made exceptional service and leadership contributions to the college and/or its alumni society.

Ms. Grieb, assistant director of alumni relations, took her first position with the college in 1977, where she held various positions including staff assistant to the associate dean for resident instruction. Since 1984, she has held positions involving alumni relations, becoming the college's first full-time alumni relations coordinator in 1985. In her current position, she directs the college's alumni relations program and serves as the college liaison to the Eberly College of Science Alumni Society Board of Directors. In addition, she is responsible for the management and stewardship of the college's endowed funds.

Ms. Grieb has served on a number of college and University committees, including the External Relations Continuous Quality Improvement Team. She currently is a member of the University Alumni Services Continuous Quality Improvement Team and is a volunteer and fund raiser for community organizations. She earned an associate degree with honors in liberal arts at Penn State in 1993.

Dr. Groth, professor and head of the Department of Physics, was honored for his outstanding leadership of the Department of Physics. He has been its head since 1988, during which time the department experienced an unprecedented growth in stature and visibility.



Suzanne Sinclair Grieb



Howard Groth

served on numerous committees within the department, the college and the University, including the University Faculty Senate, the Graduate Council, and the advisory boards of the Applied Research Laboratory and the Materials Research Laboratory. He has served as chairman of the University Leadership Group and the Implementation Committee for Administrative Changes at the Materials Research Laboratory, and as leader of the Continuous Quality Improvement Team on the Learning of Physics by Engineers.

Dr. Groth graduated magna cum laude with a bachelor's degree in physics from the City College of New York in 1962 and earned a doctorate in physics at Cornell University in 1967. He began his career at Penn State as a research associate in 1967 and was promoted to instructor in 1968, to assistant professor in 1969, to associate professor and senior member of the graduate school faculty in 1973 and to professor in 1976.

Cofounder of the textbook *Physics for Science and Engineering*, published in 1978 by Harper and Row, his research concerns the theoretical physics of bound states governed by quantum electrodynamics or quantum chromodynamics. He currently is a member of Phi Beta Kappa and the American Association of Physics Teachers, and is a Fellow of the American Physical Society.

Its research funding doubled and the department also established a number of new facilities and educational enhancements for students. He also played a key role in the creation of two new interdisciplinary research centers: the Center for Gravitational Physics and Geometry and the Center for Material Physics.

Dr. Groth has

Professor earns development award

David A. Rosenbaum, professor of psychology in the College of the Liberal Arts, has been awarded a Research Scientist Development Award by the National Institutes of Mental Health. The award continues for an additional two years an earlier five-year award granted to Dr. Rosenbaum in 1992. The grants provide the time needed to develop a research program of scientific promise.



David A. Rosenbaum

Dr. Rosenbaum's research is concerned with human motor control and perceptual-motor integration. In his research on how the brain controls movement, he has developed a mathematical model describing the movement of the hip, shoulder and elbow as reaching movements are made. The model also allows prediction of the adjustments made if illness or injury curtails movement in one of these joints. In an extension of this work, Dr. Rosenbaum is now studying how adjustments are made if it is necessary to avoid an obstacle while reaching toward an object. The research has the potential for application to robotic design, recovery after accident or stroke and industrial engineering.

Dr. Rosenbaum's research has been funded since 1982 by grants from the National Science Foundation and in 1988-89 by the National Institute of Child Health and Human Development. From 1985 to 1990 he held a Research Career Development Award from the National Institutes of Health. Before coming to Penn State in 1994, Dr. Rosenbaum was professor of psychology at the University of Massachusetts, Amherst. From 1981-87, he was a faculty member at Hampshire College, and in 1987 he was a member of the technical staff of the Human Information Processing Research Department at Bell Laboratories.

He earned his bachelor's degree from Swarthmore College, where he was elected Phi Beta Kappa, and his doctorate from Stanford University.

News in Brief

Halloween Trails

The ninth annual Halloween Trails weekend at Shaver's Creek Environmental Center will be held Oct. 27-29. The trails include a Haunted Forest Trail, occupied by frightful inhabitants, and a Children's Magical Trail, filled with happy witches, a singing pumpkin and other Halloween characters. Children under 12 must be accompanied by an adult. Children three and under get in free.

Tickets for the Haunted Forest Trail and the Children's Magical Trail, are \$5 and \$3 respectively, and are available now through Oct. 20 and Oct. 23-29 at Shaver's Creek from 10 a.m. to 6 p.m. On the weekend of Oct. 21 and 22, tickets will be available only at the Recreation Building from 10 a.m. to 5 p.m. The tickets, which must be purchased in advance and in person, are marked

with a half-hour starting time and are non-refundable.

More than 200 volunteers from surrounding communities help create the Halloween Trails, which attracted nearly 3,000 visitors in 1994. The Haunted Forest Trail runs from 7-10 p.m. on Oct. 27 and 28, and from 6-9 p.m. on Oct. 29; the Children's Magical Trail runs from 2-3:30 p.m. on Saturday and Sunday. For more information, call Shaver's Creek at (814) 863-2000.

Professional Women to meet

An open agenda meeting, "Let's Talk About It," to discuss interests and concerns common to members of Professional Women at Penn State will begin at 11:50 a.m. Tuesday, Oct. 17, in Room 212 Eisenhower Chapel. Participants may bring a brown-bag lunch.

Professional Women at Penn State is a grassroots group coordinated by University women so that participants can develop and maintain a communications network. The group also serves as a resource. Both males and females in all job and student classifications at the University are welcome to attend.

Subjects needed for study

The Department of Marketing is recruiting 20- to 30-year-old subjects for an advertising study at the University Park Campus. Subjects will be asked to watch three commercials and share their thoughts about them. The study will take a little over an hour, and participants will receive \$10 each. For more information, call Ozlem at (814) 863-2724 or Jon at (814) 865-0621.

Research

 Intercom
 October 12, 1995 11

Cleanroom-style ventilation works for chicken coops, too

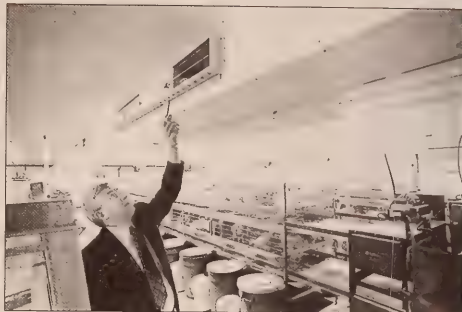
Penn State agricultural engineers have shown that cleanroom-style ventilation systems — with inlets in the ceiling and outlets in the floor — also can control dust and aerosols in larger, more complex poultry buildings.

Harvey B. Manbeck, professor of agricultural engineering, and Myron S. Worley, a former graduate student, used computer simulations and a scale model to track airflow patterns and particle transport through a two-story stack cage layer facility.

They found that a porous ceiling or a multiple-slotted ceiling inlet system, similar to the schemes commonly used in cleanrooms for dust-sensitive industries such as hospitals, microelectronics industries and some chemical and pharmaceutical industry applications, yielded excellent airflow and contaminant removal characteristics.

Their results are reported in the journal *Transactions of the American Society of Agricultural Engineering*.

In their paper, the researchers wrote, "Modern intensive livestock con-



Harvey B. Manbeck, professor of agricultural engineering, checks the ventilation system in the laying cages room in the Poultry Research and Education Center on the University Park Campus.

Photo Greg Grieco

finement housing systems provide a convenience for producers, but also raise concerns with respect to air quality in the animal and worker environment. Most animal housing ventilation systems are designed for heat and moisture removal with less consideration for dust and aerosol elimination.

Side-wall ventilation systems are most common in poultry buildings.

Dr. Manbeck and Mr. Worley wrote that the computational fluid dynamic modeling "appeared to be a valid and useful tool in designing, modifying and evaluating ventilation systems for the control of par-

ticulates in animal housing facilities with complex flows. The results suggested that the use of ceiling inlet ventilation in cage layer facilities is a viable method for the control and reduction of airborne particulates under some ventilation rates."

— Barbara Hale

Research Roundup

Project takes off from Outback

A University astronomy experiment is scheduled to take a 15-minute ride in space on a rocket to be launched from the Australian Outback this month. The experiment will take an X-ray snapshot of a huge space object that covers an eighth of the sky, but is invisible at optical wavelengths, David N. Burrows, associate professor of astronomy and astrophysics and leader of the Penn State team that designed the experiment, said.

"We are going to measure the temperature, chemical composition and density of a superbubble of hot gas called Loop-1 in an area that can be seen only from the southern hemisphere," he said.

A superbubble forms when groups of the largest and hottest stars explode. The Earth is inside a bubble like Loop-1, but is insulated by a smaller cloud of cool gas.

One goal of the research is to understand how the edge of a superbubble interacts with the interstellar medium. Dr. Burrows plans to launch a similar experiment from the northern hemisphere to compare gases in different regions of Loop-1 to determine whether the huge object is actually a single structure or an optical illusion.

Study proves trade shows can help boost business sales

Billions of dollars are spent annually by U.S. companies to exhibit their wares in trade shows based more on faith than on any hard evidence of increased sales.

Now, experts from the University and Exhibit Surveys Inc. have shown that, under certain circumstances, trade show participation generates positive returns on investment — a crucial first step toward better planning tools for exhibitors everywhere.

"Even the most sophisticated marketers typically measure a trade show's success in terms of the quality of the visitors to the booth or the number of sales leads generated, rather than in terms of dollars spent versus dollars gained," Sriniath Gopalakrishna, assistant professor of marketing, said. "However, we found that, in at least some cases involving brand new products, companies can track return on investment results from shows in a way

that can make deciding whether or not to participate in future events a less subjective choice."

Dr. Gopalakrishna, Gary L. Lilien, distinguished research professor of management science, Jerome D. Williams, associate professor of marketing, and Ian K. Sequeira, vice president of Exhibit Surveys Inc., worked with Restek Corp., a Bellefonte, Pa., manufacturer of chromatography products. The team had support from the University's Institute for the Study of Business Markets and the Trade Show Bureau. The analysis targeted two new products from Restek Corp. introduced at a trade show in Atlanta in 1993.

Restek Corp. does not employ a sales force nor use agents or distributors. This provided the researchers with a "clean" situation for comparing sales resulting from only two major communication strategies.

Using records of show attendees

and Restek's mailing lists, the team compared the post-show buying behavior of the 1,003 customers/prospects who visited the booth with 10,871 who either did not attend the show or who attended but did not visit the booth.

In each of the four months following the show, the booth visitor group had a higher sales level for the new Restek products on a cumulative per-customer basis than the non-visitor group. During that time, there were no other chromatography industry trade shows in North America.

The experts found that the proportion of customers buying the two products was greater among those who visited the booth; and that the sales per customer buying the product were greater among the visitors.

The researchers calculated a short-term return on the investment of 23 percent for the four-month period. A projection of long-term effects

suggested an upper limit of a 112 percent return on investment by the time sales saturation was reached.

"We can definitely attribute the higher level of sales per customer on the visitors' part to the show itself, because there was no prior sales history of the products before the show," Dr. Gopalakrishna said. "So, in the end, these results suggest that this trade show at least performed an effective, pre-sales role in the later stages of the selling process."

"Also, it seems clear that trade shows are more likely to yield a positive return on investment when they can generate high levels of awareness, interest, prospect-generation and sales relative to their cost. Such situations are most likely to occur for new products and at shows where exhibitor participation cost per key prospect is low."

— Gary W. Cramer



Creating fun

The Hetzel Union Center for Arts and Crafts, in 312 HUB on the University Park Campus, will begin its second session of fall art classes the week of Oct. 23.

Arts and crafts classes for children, teens and adults are offered in photography, drawing, painting, handbuilding, wheel-thrown pottery, stained glass, mixed media and more. Classes are open to anyone in the community with discounts for Penn State students.

Other center programs include Mini Arts Day Camps for elementary school-age children during State College Area School District in-service days on Oct. 20 and Nov. 9 and 10, and Kindergarten Connection, an arts program for those who attend kindergarten for a half-day.

For more information, call (814) 863-0611.

Planning council

continued from page 1

versity's budget."

The work of the Budget Strategies Committee will be done in parallel with the initial activities of the UPC. The committee will be asked to forward its recommendations to the UPC by Feb. 1, so they may be reflected, as appropriate, in the general planning guidelines issued to the University's academic and support units.

The University Planning Council will include: **William W. Asbury**, vice president for student affairs; **Corrinne Caldwell**, campus executive officer of Penn State Mont Alto; **Rodney Erickson**, dean of the Graduate School; **Gregory L. Geoffroy**, dean, Eberly College of Science; **Peter C. Jurs**, professor of chemistry and chair of the University Faculty Senate; **Scott R. Kretschmar**, professor of exercise and sport science and chair-elect of the Faculty Senate; **Eva J. Pell**, Steimer Professor of agricultural sciences; **Gary Schultz**, senior vice president for finance and business/treasurer; **Elliot Vessel**, Evan Pugh Professor and assistant dean of graduate education of the Department of Pharmacology; **Susan Welch**, dean, College of the Liberal Arts; and **David Wormley**, dean, College of Engineering. In addition, two students — one undergraduate and one graduate — will be appointed to the council.

Staff support for the UPC will be provided by **P. Richard Althouse**, University budget officer; **Stephen R. Curley**, assistant to the provost/financial officer; **G. Gregory Lozier**,

executive director, Planning and Analysis; and **Bill Mahon**, interim executive director, Office of University Relations.

The Budget Strategies Committee will include: Mr. Schultz, who will chair the committee; Mr. Althouse; **John A. Dutton**, dean, College of Earth and Mineral Sciences; **Dean Geoffroy**; **J.D. Hammond**,

The CES planning process may result in a significant effort to restructure some campuses in the coming years to be more responsive to the needs of the communities they serve.

dean, Smeal College of Business Administration; **Rodney J. Reed**, dean, College of Education; and Mr. Curley, who will provide staff support.

"This effort will be a continuation of a successful strategic planning process that was put in place 15 years ago and more recently by the Future Process," Dr. Brighton said. "We believe this will provide an effective way to have a collaborative, collegial process for establishing and implementing our plans."

"The University's budget realities of the last five years have placed a greater importance on planning, and integrat-

ing the budget process with strategic planning," Dr. Brighton said. "These budget constraints, which exist for all of higher education, are expected to continue at least over the next few years. Part of the challenges these committees will have, along with the entire University, will be to face the fiscal realities and still advance the quality of the institution."

An important element of the University's five-year strategic planning will be the plans put in place during the coming weeks to address the future role the Commonwealth Campuses will play in communities around the state.

The Common wealth Educational System planning process may result in a significant effort to restructure some campuses in the coming years to be more responsive to the needs of the communities they serve. President Spanier has asked Robert E. Dunham, senior vice president and dean of CES, and his staff to lead the planning process for the 17 campuses.

To allow the academic and support units to focus on the development of their five-year plans, an abbreviated planning process will be followed for the 1996-97 budget year. The process will build upon the three-year University Future Process, which is now in its final year, and will extend existing unit goals and reallocation priorities one additional year.

"The guiding principles established in the University Future Process will continue to serve as the basis for unit planning next year," Dr. Brighton said. "These principles identify academic quality as the first priority."

Portions of Intercom available online

Front page stories and other portions of Intercom are available electronically through: OAS, Emc2, CAC PSUVUM accounts or Penn State Gopher.

In addition, the Intercom can also be found on the home page for the Office of University Relations at URL

<http://turu.pub.info.oud.psu.edu>. At this site,

Web surfers can find a video clip — complete with a soundtrack — from the president's Sept. 15 state-of-the-university address, as well as biographical material on the president, recent stories released by the office, University facts and figures, and much more.

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INTERCOM

October 19, 1995

Volume 25, Number 10

Campuses to undergo intense study for future

The full text of the plan for campuses to review their missions can be found on the World Wide Web at URL <http://www.pubinfo.psu.edu>, the home page of the Office of University Relations.

Changing demographics across the state, as well as a shift in educational needs expressed by Pennsylvanians, has prompted a call for University locations to review their histories and missions and closely scrutinize their operations.

Each of the 18 campuses in the Commonwealth Educational System,

as well as Penn State Erie, The Behrend College and Penn State Harrisburg must this year undergo a self-evaluation process to determine how they can best serve the regions where they are located.

As part of the University's recently announced five-year planning cycle, this process will result in a recommendation from each campus — recommendations that could range from consolidation with other campuses to an alteration of current educational offerings; from a continuation of their present mission to an alliance with another

institution in the region. (See "Options" box on page 3)

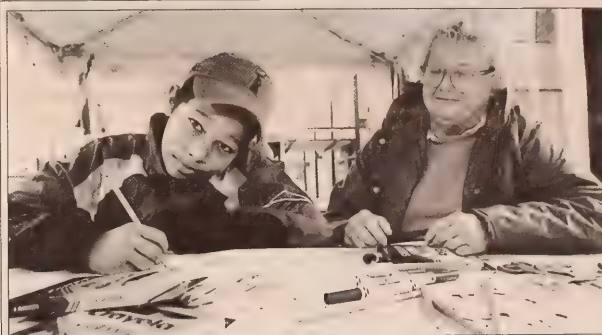
"Campuses need to undertake a series of discussions about the role they play within their communities and whether they are truly operating in the best interests of the University, the community and the Commonwealth," President **Graham B. Spanier** said. "As one of the most comprehensive institutions of higher education in the nation, it is imperative that we reevaluate, and in some cases redefine, how we deliver educational services in the state."

"The Commonwealth Educational

System is a tremendous asset to Pennsylvania and it has served the state well. But we need to reexamine a system whose structure has not changed dramatically since its initial inception more than five decades ago."

What began during the great economic depression of the 1930s as experimental "Freshman Extension Centers" in response to local needs, had by the 1950s evolved into a statewide system of Commonwealth Campuses. The influx of returning World War II veter-

See "CES" on page 3



Rain, rain, go away....

Justin Dorsey, 12, and June Brown, coordinator of art activities, wait for the rain to stop at the 1995 Festival of Cultures, held despite the downpour Oct. 14 along Calder Way in downtown State College.

Photo: Greg Gneco

Enrollment jumps by 3,000 students

Penn State's total enrollment for the 1995-96 school year has reached a new all-time high.

The total credit enrollment is 71,870 students at all 22 locations, an increase of 4.4 percent over Fall 1994 total enrollment.

"We are delighted at the outstanding results of the many collaborative efforts involving the campuses, colleges and the central admissions and student aid offices," said Penn State President **Graham Spanier**. "This year's enrollment reflects the hard work of our community in recruiting students within Pennsylvania and throughout the United States, and also represents the public's recognition of the top quality education we offer to our students."

A record number of minority students are enrolled this year. Minority enrollment is now at 6,732, an

See "Enrollment" on page 4

University community invited to 'open house' of president's office

President **Graham B. Spanier** will hold an open house for the University community from 3 to 6 p.m. Monday, Oct. 23, in his office at 201 Old Main on the University Park Campus.

"During the nine years I previously served on the faculty at Penn State and as an associate dean I never had the opportunity to see the president's office," Dr. Spanier said. "I'm glad to be in a position to host an open house for current faculty, staff, students and others to see the rich heritage of this office."

"Old Main is a beautiful, historic

building that is not just for administrators to enter," he said.

President Spanier will be on hand to greet faculty, staff and students who wish to visit his office in 201 Old Main. The Nittany Lion will there to welcome visitors to the building and the Lion Ambassadors will be available for tours of the building.

U.S. presidents who have visited the current Old Main building include George Bush and Dwight Eisenhower. " Ike" visited his brother Milton who served as Penn State president from

1950 to 1956, during the time Ike occupied the White House.

The current Old Main was constructed in 1931 to replace the original structure that occupied the same location since 1863. It incorporates much of the stone work of the original structure.

Other famous visitors to the building include Hillary Clinton, the Rev. Desmond Tutu and British Prime Minister Clement Attlee.

Among the items on display in the president's office are a 1930s replica of a New England whaling chest and a num-

ber of pieces of art work from the Palmer Museum of Art.

Old Main was designed by Charles Klauder in the Federal Revival style and at one time provided student union facilities as well as offices for administrators.

Faculty, staff and students are welcome to visit the president's office and will be treated with a brief history of the Land Grant frescoes — the mural paintings that adorn three sides of the Old Main lobby — by the Lion Ambassadors.

Light refreshments will be served.

DIVERSITY

Multicultural Winter Festival to be held Dec. 9

The Central Pennsylvania Women of Color and the President's Commission on Racial/Ethnic Diversity are sponsoring the annual Multicultural Winter Festival at 8 p.m. Saturday, Dec. 9, at the Nittany Lion Inn on the University Park Campus.

The honorary co-chairs are **Cecile Springer** of Pittsburgh, University Trustee emerita, and State College Mayor **William Welch**.

Cross-cultural music, dance demonstrations and food will be featured. The band "Urban Fusion" with singer Terri Dowdy will perform.

The festival serves to provide cross-cultural learning experiences to members of all University locations and surrounding communities.

"Last year's event was very successful, drawing many people from several different cultures, the surrounding communities and the Commonwealth Campuses. It was an enjoyable and educational experience," Ann Shields, chair of this year's planning committee, said.

The Women of Color is a network to build cross-cultural understanding friendships among all women. The Commission on Racial/Ethnic Diversity advises the president on issues relating to racial/ethnic diversity. Support for the festival also is provided by the University's Equal Opportunity Planning Committee.

Tickets are available by calling **Michael Bianco**, director of the Multicultural Resource Center, at (814) 863-7840. Tickets are \$15 per person and will be sold in advance only; no tickets will be sold at the door.



Penn State Trustee Emerita Cecile Springer and State College Mayor William Welch look at different cultural items in the gift shop of the Palmer Museum of Art on the University Park Campus. They are honorary co-chairs for the upcoming Multicultural Winter Festival.

Photo: Greg Grieco

Gay, Lesbian, Bisexual lecture series announced

The 1995-96 Gay, Lesbian, Bisexual Lecture Series features:

■ A slide presentation by **Harmony Hammond**, internationally known sculptor whose work can be found in more than 50 public collections including the Metropolitan Museum of Art, the Chicago Art Institute and the Brooklyn Museum, at 1 p.m. Monday, Oct. 23, in the Frizzell Room of the Eisenhower Chapel on the University Park Campus. At 7 that evening, she will discuss "Issues of Lesbian Self-Representation in Visual Arts," in Room 105 Forum Building.

Ms. Hammond, professor of art at the University of Arizona, was one of the first major artists to address issues of lesbian identity.

■ **Robert Repinski**, whose sculptural installations have been included in numerous national and international exhibitions, will give a 1 p.m. slide presentation of his work on Thursday, Oct. 26, in the Palmer Museum of Art Auditorium. At 7 p.m., he will discuss "Artists and Models: Gay Men in Visual Art" in

101 Classroom Building. Mr. Repinski, assistant professor of art at the University of Minnesota, is an outspoken educator on lesbian and gay issues.

■ A lecture, "The Pervert in the Classroom," presented by **Jonathan Siliu**, a faculty member of Bank Street College in New York, at 7 p.m. Thursday, Nov. 30, in the Palmer Museum of Art Auditorium. Mr. Siliu, who began his career as a preschool teacher, has served as a consultant to many HIV/AIDS-related projects and has taught at Colgate, Columbia University, Adelphi and Long Island universities. Over the last 25 years, he has earned a reputation as an innovative and creative early childhood educator, and has created AIDS education programs for schools, hospitals and social service agencies.

This three-part series on lesbian, gay and bisexual lives is sponsored by the Equal Opportunity Planning Committee, Continuing and Distance Education and the Committee on Lesbian, Gay and Bisexual Equity.

African-American males are focus of empowerment summit

According to widely published statistics, one in three African-American males between the ages of 18 and 24 is involved in some way with the criminal justice system — either in jail, prison or on probation or parole.

Sending African-American men to college rather than incarcerating them would be cheaper say some experts, who also believe that the African-American male is an endangered species.

The African-American Male Student Empowerment Summit on Saturday, Oct. 21, at the Paul Robeson Cultural Center on the University Park Campus, will try to address some of these problems, including the "clear and present danger" imminent to Black males in general but specifically Black male students at Penn State, says **Leon D. Caldwell**, conference organizer and doctoral student in the Department of Counselor Education, Counseling Psychology

and Rehabilitation Services in the College of Education.

The summit is a man-to-man outreach and mentoring initiative, with an emphasis on self-sufficiency for the African-American community.

Terrell Jones, deputy vice provost for educational equity, will open the morning session, and **James Stewart**, vice provost for educational equity, will give the keynote address.

Discussion topics include "Self-Empowerment" with commentary from **Bernard Bell**, professor of English; "Spiritual/Health Empowerment;" and "Community/Political Empowerment." **Aaron Gresson**, associate professor in the College of Education, will be the facilitator for the closing session, which will include drafting an action plan.

For more information, call **Leon Caldwell** at (814) 865-3428 or by E-mail at IDC30@PSU.EDU.

CES

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ans had overwhelmed Penn State's existing facilities. Emergency class centers — some that would later become campuses — were created. Out of this postwar emergency situation the Commonwealth Campus system, later CES, was born.

A look at demographic information for the state points out a striking need for a review of the structure of CES. The total population of Pennsylvania in the last 14 years has increased only a modest 1.9 percent, while the number of students graduating from Pennsylvania's high schools reached a record high in 1976. Since that time, the Commonwealth has experienced a steady decline of 37.6 percent in the number of high school graduates.

Combined with a fluctuating state unemployment rate, an increasing minority population and a shift in the workforce distribution across Pennsylvania from manufacturing to service industries, the data show that campuses may need to alter their operations to meet the changing needs of a changing population. Robert E. Dunham, senior vice president and dean of CES, said.

To help campuses in their discussions, Dr. Dunham said several guiding concepts are being provided as a foundation. These guidelines include:

- The "one-university, geographically distributed" concept, which has served Penn State well, should be continued.

- The feeder function of baccalaureate students should be continued, although there may be more upper-division opportunities at selected campuses.

- A campus should meet the changing needs of the region, while providing educational opportunities unique to Penn State.

- Greater autonomy will need to be given to those campuses with changing missions in order to be responsive to community needs.

- Although there is no intent to eliminate any specific campus, there may be fewer stand-alone, separately budgeted campuses in the future.

- Proposed changes in campus missions should be fiscally sound and additional costs, if any, should be identified. A budget plan should be developed within the current budgeting framework.

- Proposed changes in campus mission should take into consideration the impact on University Park and other campuses.

- Proposed changes in campus mission should take into consideration other institutions of higher education in the area and avoid unnecessary duplication. Consultation with neighboring institutions should take place as part of any discussion, and opportunities for cooperation and collaboration should be reviewed before final recommendations are submitted.

Campuses should be guided in this self-evaluation by local demographic information, reasonable mission options and a sense of educational service to the local region. Dr. Dunham said. To assist in the process, campuses will be furnished with data highlighting socioeconomic trends in their service area.

"We encourage campuses to prepare and distribute other market research data, campus demographic material or any other information that will contribute to a rich campus and community discussion," Dr. Dunham said.

To foster open discussion and as a pledge to the campus communities, Dr. Dunham offers a number of assurances, including the fact that any change will occur over time based on a five-year strategic plan and campus and faculty will have an opportunity to participate in discussions about campus mission. (See box above for a full listing of assurances.)

"Change often presents anxiety, but no dramatic changes are imminent," Dr. Spanier said. "We just need to reflect on the size, scope and complexity of this institution and what it means to Pennsylvania. Provost Brighton, Dr. Dunham and I look forward to reviewing the recommendations from the campuses."

The proposed time frame, subject to change, for the self-evaluation by campuses begins this month with a planning document distributed to all campuses, spelling out options, assurances and guidelines. Discussions should begin in November

OPTIONS TO CONSIDER

Each campus will be given a limited number of the following options from which to choose, based on campus size, type of student, residence halls, geographical relationship to other institutions, etc.

■ Continue present mission

Under this option, campus has opportunity to define what the alteration should be and offer supporting data. It might be the addition of one or two upper-division baccalaureate programs or a professional master's degree program.

■ Four-year college

Requires a considerable number of existing faculty, a sufficient existing budget and means for increasing growth potential, a minimum of unnecessary duplication with other colleges and universities and, if non-urban area, residence halls.

■ Graduate center

Possible option for smaller and mid-sized campuses, with particular market for applied graduate programs and courses, growth potential and a minimum of unnecessary duplication with other institutions. Appropriate core group of faculty will be graduate faculty when implemented.

■ Upper-division campus

May be more appropriate in urban areas; should be growth potential and minimum of unnecessary duplication with other institutions.

■ Outreach center

Appropriate for smaller campuses with older, non-traditional market or significant needs for continuing education and community service. Centers could be used as delivery centers for distance education courses and pro-

grams, agricultural extension or economic development assistance.

■ Community college

Not a part of Penn State, but may be needed in certain communities.

■ Part of multi-campus/college

May be appropriate to combine some campuses which are close geographically under one administrative head and with one budget. Where the combined faculty is large and diverse enough, the new entity could become a college of the University.

■ A campus of Behrend College

For one or two campuses that are close enough to Erie, this may be desirable.

■ A campus of Penn State Harrisburg

For one or two campuses close enough to Harrisburg, this may be desirable.

■ A campus of The Pennsylvania College of Technology

For one or two campuses close enough to Williamsport, this may be desirable.

■ A campus of University Park

Where there is a special, narrow programmatic focus in a region of the Commonwealth, it may be desirable for University Park to have a distant campus, especially in urban areas.

■ An alliance with another college or university

Where there is another college or university in the region, there may be an opportunity for an alliance or formal collaboration.

ASSURANCES

■ Tenured faculty will not be released as a result of changing campus missions.

■ The implementation of a change in a campus mission will occur over time and will be addressed in the five-year strategic plan.

■ Faculty and staff will be provided an opportunity for retraining to meet the new mission of a campus. Where retraining is not appropriate, reassignment will be offered.

■ Students enrolled will have the opportunity to complete the work

they originally planned.

■ Campus faculty and staff will have an opportunity to participate in discussions about campus mission.

■ A faculty member's locus of tenure in a University-wide department will not be changed without the consent of the faculty member, unless that program or department is phased out of the University.

■ Tenured faculty who choose not to relocate or retrain, early retirement options will be available.

and continue through December. In 1996, tentative recommendations from the campuses are due in January, followed by months of more discussion and feedback, until a recommendation can be presented to the Board of Trustees in July. A final review of the proposed mission for each campus will be conducted by outside consultants, who will provide an external view and recommendations.

By August, the five-year strategic planning process begins at each campus. The final plans for CES, Penn State Erie and Harrisburg will be presented to the newly formed University Planning Council in January 1997.

TIME FRAME

OCTOBER—Campus given planning document

NOVEMBER—Discussions begin; consult with academic deans, community leaders

DECEMBER—Continue discussions; consult with other campuses or colleges; consult with neighboring institutions

JANUARY—Submit tentative recommendations to senior vice president and dean of CES to be shared with president, deans and University Planning Council

FEBRUARY—Feedback from central discussions

MARCH—Final recommendations due

APRIL—Review of campus recommendation

MAY—Decision by president

JULY—Goes before Trustees

AUGUST—Five-year planning process begins on each campus.

Behrend looking to create 'knowledge park'

Administrators at Penn State Erie, The Behrend College are currently seeking funds from the state to conduct a study on the feasibility of developing a "knowledge park" at the campus. The knowledge park, envisioned to occupy a mile-long stretch of college grounds on the north side of I-90, would closely link the college's research and educational activities with technology- and knowledge-based companies in the region.

For years, Penn State Erie has been actively involved in the economic development of the area, with projects ranging from educational partnerships related to engineering and engineering technology to eight applied research and technology transfer centers and an MBA program geared to servicing students from regional companies. "The park is the next logical step in the college's outreach program for economic development," John Lilley, provost and dean of the college, said.

In addition to helping the local community, the park is expected to enhance employment opportunities for graduates and enhance Behrend's technology transfer, applied research and development and its educational activities and resources.

"The University in cooperation with the Greater Erie Industrial Development Corp., which has extensive experience in developing such parks, is seeking funding to conduct a feasibility study that would describe all of the costs and the opportunities," Robert Light, associate dean for graduate studies, research, continuing education and economic development, said.

The park, which will be developed entirely through grant dollars and private funding, should also help:

- Promote the birth and spin-off of manufacturing-support and other technology-based organizations in the region;
- Attract technology- and knowledge-based manufacturing-related organizations to the region, especially those with the potential to provide R&D or other services;
- Provide facilities and infrastructure, including a proposed Research and Economic Development Center which would house the college's schools of Engineering and Engineering Technology, and Business;
- Retain and upgrade the region's human resource base; and
- Enhance the global competitive advantage of the region's manufacturers.

Enrollment

continued from page 1

increase of 646 or 10.6 percent over last year. Individual increases are reported in African American, Asian American and Hispanic enrollments.

"Minority students represent 9.4 percent of the total student population, which is the highest percentage in Penn State's history," Dr. Spanier said. "This shows progress in our commitment to diversify our student population, and we will continue to work hard to attract more minority students from Pennsylvania and the nation."

Total enrollment at University Park is 39,571, up by 1,352 students or 3.5 percent. That includes 32,715 undergraduate students and 6,856 graduate students.

The Commonwealth Campus report a total of 23,557 students, up by 1,441 or 6.5 percent. Nearly all the campuses report increases in their total enrollment.

"The overall growth is nearly all in full-time baccalaureate students," Dr. Spanier said. "Again, our success stems from many actions including personalized admissions, early estimates of

student aid, a redesigned application and a team approach involving campuses, colleges and central offices.

"We are responding to the questions and needs of prospective students and their families, and the increased enrollment is a positive sign of our response."

Total graduate and medical student enrollment also rose to 11,205, up from 10,950 last year and an increase of more than 2 percent.

"We just finished our best year of fund-raising in the history of the institution, our expenditures for research jumped significantly again in the past year, and our alumni association is now the largest such organization in the nation," Dr. Spanier said. "Our commitment to quality and progress and our commitment to serve the Commonwealth and the nation are evident in almost every possible measure."

Penn. State was recently named the eighth most efficient university in the nation by U.S. News & World Report. The magazine measured the institution's quality against its expenditures per student.

President's statewide tour rolls into Erie on Oct. 25

The next stop on President Graham B. Spanier's statewide tour that is taking him to all corners of the Commonwealth is Penn State Erie, The Behrend College on Wednesday, Oct. 25. The Behrend visit is Dr. Spanier's fourth stop since beginning the tour Sept. 20.

FAST FACTS ABOUT PENN STATE ERIE THE BEHREND COLLEGE

Founded: 1948

Service area: Erie, Crawford, Warren and Venango counties

Provost: John Lilley

Employees: 550 (includes both full- and part-time employees)

Key programs: Penn State Erie is the only four-year and graduate college of the University, outside of University Park. It offers four associate degree programs, 25 baccalaureate degree programs and a master's degree in business administration. Graduates of the college's plastics engineering technology program enjoy 100 percent placement.

25-year Awards



Observing 25 years of service at the University are, from top, John Neisworth, professor of special education; Yoshimisa Takai, associate professor of education and sociology; both in the College of Education; Charles R. Bursey, professor of biology; George M. Gerhart, financial aid officer; and Thad R. Freisner, assistant professor of biology, all at the Penn State Shenango Campus.

Fall 1995 Enrollment

Location	Fall 1995	Fall 1994	Change
University Park*	39,571	38,219	1,352
Erie	3,208	3,090	118
Harrisburg	3,510	3,628	-118
Great Valley	1,448	1,194	254
Hershey	576	579	-3
Abington-Ogontz	3,212	2,958	254
Allentown	624	611	13
Altoona	2,919	2,468	451
Beaver	862	839	23
Berks	1,771	1,723	48
Delaware Co.	1,540	1,416	124
DuBois	920	973	-53
Fayette	994	903	91
Hazleton	1,316	1,211	105
McKeesport	878	837	41
Mont Alto	1,261	1,111	150
New Kensington	983	1,040	-57
Schuylkill	1,041	1,018	23
Shenango	1,005	1,103	-98
Wilkes-Barre	800	769	31
Worthington			
Scranton	1,325	1,268	57
York	2,106	1,868	238
TOTAL	71,870	68,826	3,044

*Includes enrollments at Monroeville and Williamsport Education Centers

University's reaccreditation process goes smoothly

"I am a strong believer in the accreditation process. It allows an institution to take a close look at itself and to have the team evaluate and report back what they find. It is always more helpful if an outside group puts a stamp on thorny issues in higher education."

— Rutgers President
Francis L. Lawrence

For three intense days last week, a Middle States reaccreditation team of distinguished academics from across the country, led by Rutgers President Francis L. Lawrence, met with more than 250 faculty and staff from all locations, colleges, and administrative units in more than 100 separate meetings. They met at University Park and several campuses to take a close look at the quality of a Penn State education and the effectiveness of University management.

"We came with our eyes open. We share many of the same issues, and in my case," Dr. Lawrence said, "I've known Penn State for many years, we're neighbors. We found no surprises. We see an institution that plans, that is focused and is looking to advance to the next level."

Representing the Middle States Association Commission on Higher Education, which every 10 years assesses the quality of member institutions, the volunteer team was guided in their evaluation by a 10-year institutional self-study report completed last month.

"It is quite remarkable to get such accomplished volunteers to look closely at the University. It's even more remarkable that they have discovered so much about us in so short a time," President Graham B. Spanier, said. "I hope that members of the team have found things they would like to explore further with us so that the learning is a two-way process, and I look forward to sharing their results with the University community."

The University will receive the team's final report in February.

"At issue is not the status of our accreditation, but our ability to take advantage of the accreditation process for an in-depth, comprehensive assessment of our educational programs and administration," Robert Secor, vice provost and chair of the Penn State Self-Study Team, said. "The results from the 1996 accreditation helped us refine our strategic planning process, which we began in 1983, and this year's results will help us evaluate our goals and framework for action for many years to come."

Accrediting colleges and universities began back in the 1920s when there was public concern over whether or not many institutions actually had the resources to offer quality higher education. Accreditation

Nine areas of study

Curricular Reform: This area was identified by various reports. The University Future Committee and the Commission on Undergraduate Education as a need. As a result, the University Faculty Senate passed proposals to make the undergraduate curriculum less complex and more coherent. Other initiatives have been undertaken to increase international and interdisciplinary education.

Models of Teaching and Learning: University-wide efforts to improve the quality of education include initiatives in the Instructional Development Program, the Learning Resources Centers and the Institute for Innovation in Learning, for instance. Examples of college or unit-based programs include the Leonhard Center for Innovation in Engineering Education, the College of Earth and Mineral Sciences' Center for Advanced Undergraduate Studies and Experience and the Commonwealth Educational System's Center for Learning and Academic Technologies.

Assessment: Several studies are now in process to assess student learning outcomes. The undergraduate academic program assessment team formed in 1993 is introducing pilot assessment projects to each college with the colleges then developing three-year assessment implementation plans based on the pilot projects.

Co-Curricular Initiatives: Activities that help students become well-rounded, healthy individuals and potential leaders in society are a priority for the University and include more than 900 student organizations, offices and centers.

Advising: Several faculty committees have been reviewing current trends in advising, and a number of innovative advising strategies have been implemented. These include degree audit reports to inform students of their status toward degrees, mid-semester evaluations, and a new Office of Undergraduate Fellowships that identifies superior students and helps them prepare for national fellowship competitions.

Recruitment and Retention: The newly formed Central Enrollment Management Group was established to coordinate Penn State's recruiting for multiple locations and to encourage more active college participation in the undergraduate recruiting process. Among CEMG's new programs is an early estimate of financial aid. Also, the group is considering a major student aid endowment campaign in the near future.

Technology Initiatives and Applications: The University's Study Group on Information Infrastructure has given highest priority to developing a basic telecommunications infrastructure that will allow faculty, students and staff at all locations equitable access. The University obtained nearly \$16 million in special appropriations from the Commonwealth, has established alliances with technology companies for equipment and funding, and has formed relationships with other universities to share resources, knowledge and experiences.

Extended Access through Outreach: A joint report of the University Council on Outreach and the University Faculty Senate Committee this year identified a set of goals and guiding principles for action. Currently, the academic colleges offer more than 1,000 programs for students who are not in residence.

Research and Scholarship: These remain a primary goal and expectation at Penn State and provide students with a superior educational experience. The Fund for Undergraduate Education that supports faculty proposals for the improvement of undergraduate course work, the Provost's Award for Collaborative Instructional and Curricular Innovations and the Penn State Fund for Research are some new initiatives that improve the synergy between research and learning.

ing inputs of yesterday focused on the inputs, the resources. Now they concentrate more on the process of education and the outcomes.

Penn State's 10-member self-study group adopted an approach that focuses on the quality of educa-

tion and the institution's commitment to effective management. It analyzed nine areas that impact quality education (see box above) and reviewed recent University progress in each.

"In this approach, programs, ser-

vice, resources and functions in all areas were appraised in relation to furthering quality education and effective management to that end," Greg Lozier, executive director of the Office of Planning and Analysis and a member of this and the last self-study team, said. His office also coordinated the preparation and distribution of the self-study and oversaw the visiting team's schedule of meetings.

"Penn State's planning process has been as comprehensive, successful and sustained as any at a major university," Dr. Lozier said. "But in completing the self-study, we do see a number of challenges, such as developing a more streamlined structure and process."

Strategic planning, including the work of the University Future Committee, the University's continuous quality improvement efforts, strategic planning for diversity and the successful \$350 million capital campaign all demonstrate Penn State's commitment to effective management and are referenced in the narratives on each of nine areas that the University has addressed in the past several years to improve the quality of education.

The self-study reports on what is working well and what has been achieved, but also comments on the efforts that have worked less well and on barriers still being confronted. Each section of the report concludes with the challenges Penn State faces.

Each of the nine areas is fully discussed in volume I of the two-volume study, "Assuring the Quality of a Penn State Education: An Institutional Self-Study" (Sept. 1995). Volume II contains supporting materials, statistics, an overview of the actions and results of the Future Committee process and lists of programs offered by the University, degrees, and members of commissions, task forces and councils involved in University planning. Both volumes are available in all college offices, libraries at all locations and from the Office of Planning and Analysis.

"Much of Penn State's success over the past several years is a result of the advanced management techniques, collaborations and strategic planning we have used to reallocate diminished resources toward priority concerns," Dr. Secor said. "Some have worked very well, some need to be reassessed and a few involve risks that we have yet to take. The conversations we have had with the visiting team have been very helpful in identifying where we now need to put our efforts. I look forward to its report."

— Christy Rambeau

LECTURES

Seminar will offer insights into the world of publishing

"Choosing the Right Publisher: A Bookseller's Perspective on Academic Publishing," a concise one-day seminar from 9 a.m. to 4 p.m. on Nov. 4, at the Penn State Scanticon, will clarify the publication selection process, provide options and save a writer time, money, and aggravation.

The registration fee of \$50 includes instruction, materials and refreshment breaks.

Presenters for the seminar include **Michael Svoboda** and **Peter J. Potter**. Mr. Svoboda is owner and president of Svoboda's Bookstore in State College. With nearly 20 years in the book business, he knows what it takes to get a book published. Mr. Svoboda has a B.S. in communication arts from Cornell University and an M.A. in speech communication from Penn State. During additional graduate studies at Penn State, his scholarship awarded him four fellowships, two Graduate Interdisciplinary Fellowships and two Sparks Fellowships.

Symposium to commemorate German writer Lasker-Schüler

A symposium commemorating the 50th anniversary of the death of Else Lasker-Schüler, a key figure in the German literary and cultural scene during the first half of the 20th century, is being held today through Oct. 21, at The Penn State Scanticon.

Sponsored by the Department of German, the symposium features well-known national and international scholars who will highlight the achievements of Else Lasker-Schüler and will also focus on her religious convictions and philosophy, her poetry and plays, her prose writings and letters, as well as her drawings, painting and other artistic work. Discussion will follow each presentation.

Sigma Xi luncheon lecture is Oct. 26

Richard Frisque, professor of molecular virology, will present the October Intercollegial Luncheon Lecture, sponsored by the Penn State Chapter of Sigma Xi, The Scientific Research Society, at noon Thursday, Oct. 26, in 305 Hetzel Union Building on the University Park Campus. He will speak on "JC Virus, An Emerging Pathogen."

Other lectures scheduled in the series include: Nov. 16, **Barbara Rolls**, professor of nutrition, "Why Do We

In November 1991, he began producing *Libri*, a weekly radio book review for WFSU-FM, the local NPR affiliate. The following year, the store began production on *Contexts*, a book discussion program. Both of these programs were aired throughout the summer of 1994 and currently are being combined into a one-hour program.

Mr. Potter is editor of history and social science at the Penn State Press. He came to Penn State in 1990 after four years at the Wesleyan University Press, where he acquired books in poetry, history and the social sciences. A historian by training, he received his B.A. in 1984 from Virginia Tech and his M.A. in 1991 from the University of Virginia. In addition to the two keynote presenters, successful Penn State authors will share insights on their experiences working with specialized markets.

For more information or to register call: (800) PSU-TODAY.

Some of the participants include: **Mark Gelber**, Ben-Gurion University of the Negev, BeerSheva, Israel; **Sigrid Bausinger**, University of Massachusetts, Amherst; **Klaus Weissenberger**, Rice University; **Reinhold Grimm**, University of California, Riverside; **Jakob Hessing**, Hebrew University, Jerusalem, Israel; **Gisela Brinkler-Gabier**, State University of New York at Binghamton; and **Hajo Jahn**, Else Lasker-Schüler Gesellschaft, Wuppertal, Germany.

For more information about the symposium, contact **Ernst Schürer** at (814) 865-5481.

Choose the Foods We Eat?" Dec. 7, **James Frazier**, head, Department of Entomology, "To Eat or Not to Eat: The Bitter Sweet Choice of Insects"; Jan. 18, **Harry Allcock**, Evan Pugh Professor of chemistry, "The Design of New Materials for Medical and High Technology Applications."

For information on the lecture series or on membership in Sigma Xi, contact **Pat Gong**, 250 South Henderson Building, University Park, phone: (814) 863-9963; FAX: (814) 863-7963.

Chemistry professor to give Marker Lectures

Royce W. Murray, Kenan Professor of chemistry at the University of North Carolina, Chapel Hill, will present the 1995 Marker Lectures in the Chemical Sciences from Oct. 23 to 25, at the University Park Campus. The three-lecture series, titled "Prisons for Electron Transfers: Defining and Observing" is sponsored by the Eberly College of Science. The public is invited to attend.



Royce W. Murray

The lectures are: "Molecular Monolayers on Highly Curved Surfaces: Metal Cluster Compounds Based on Alkanethiols," 8 p.m. Monday, Oct. 23, 104 Keller Conference Center; "Molecular Monolayers on Flat Metal Surfaces: Controlling Distance, Orientation, Reactivity," 4 p.m. Tuesday, Oct. 24, S-5 Osmond Laboratory; and "Electron Self-Exchange Reactions in Polymers and Molecular Melts," at 12:15 p.m. Wednesday, Oct. 25, S-5 Osmond Laboratory.

Dr. Murray, who has been a modern pioneer in virtually all aspects of electrochemistry, received his doctoral degree in 1960 from Northwestern University and was an instructor at the University of North Carolina at Chapel Hill from 1960 until 1961. He joined the faculty at the University of North Carolina at Chapel Hill in 1961 and in 1980 was named its Kenan Professor of chemistry. Between 1987 and 1992, he served as adjunct professor in the Curriculum of Applied Sciences at

the University of North Carolina at Chapel Hill. Dr. Murray served as department chairman from 1980 until 1985 and chair of the Curriculum of Applied Sciences in 1995.

He received an **Alfred P. Sloan Research Fellowship** from 1969 to 1972, a **Japanese Society for Promotion of Science Research Fellowship** in 1978, and a **Guggenheim Fellowship** from 1980 to 1982. He has been an American Institute of Chemists Fellow since 1986.

Dr. Murray received the Distinguished North Carolina Chemist Award of the North Carolina Institute of Chemists and the Electrochemical Society Carl Wagner Memorial Award in 1987. In 1988, he was presented with the Charles N. Reilly Award of Society for Electroanalytical Chemistry. He was honored with the Electrochemical Group Medal of the Royal Society of Chemistry in 1989 in September and, in December of 1989, he received the Eleventh American Chemical Society North Carolina Section Distinguished Speaker Award.

Dr. Murray was elected a member of the National Academy of Sciences in 1991, a fellow of the American Academy of Arts and Sciences in 1992, and a fellow of the American Association for the Advancement of Science in 1992.

Traffic engineering conference set for Dec. 4-6

A statewide Traffic Engineering and Safety Conference, "Moving Transportation Forward," will be held Dec. 4-6, at The Penn State Scanticon. The conference will feature state and national experts from the transportation field, training workshops and a showcase featuring state-of-the-art technologies for the transportation professional.

This program is a continuing and distance education service of Penn State in cooperation with PennDOT, Federal Highway Administration and LTAP.

Bradley Mallory, secretary of transportation, PennDOT, will give the keynote address. National perspectives will be presented by **Dennis Judycki**, associate administrator,

Safety and System Applications, Federal Highway Administration, and **James Hedlund**, acting associate administrator, Traffic Safety Programs, National Highway and Traffic Safety Administration.

Conference sessions will focus on the general themes of: municipal issues, management systems, public safety, signals and arterials, roadside safety, traffic operation including access, signs and markings, work zone safety, and intelligent transportation systems.

For information on fees, early registration discounts and registration contact **Roberta Moore**, conference planner, Edward Building, University Park, Pa. 16801-2765 or phone (814) 863-1738.

More Lectures

Women, minorities in science topic of talk

Shirley Malcom, head of the Directorate for Education and Human Resources Programs, American Association for the Advancement of Science (AAAS), will present a lecture titled "Women and Minorities in Science," at 1 p.m. Monday, Oct. 30, in 102 Chambers Building on the University Park Campus.

Dr. Malcom, who earned her Ph.D. at Penn State, was a program officer for the National Science Foundation before becoming director



Shirley Malcom

of the Office of Opportunities in Science at AAAS. In her current position she works to increase the number of minorities, women and people with disabilities in the sciences. She is author of many articles as well as the book, *The Double Bind: The Price of Being a Minority Woman in Science*.

The lecture, open to faculty, staff and students, is presented by the Women in the Sciences and Engineering (WISE) Institute.

Two-day program looks at accelerating innovation

On Nov. 20-21, Continuing and Distance Education is offering a two-day program, the "Innovation Workshop: Accelerating Innovation in Organizations" at The Penn State Scanton.

Jack V. Matson, director of the Leonard Center for the Enhancement of Engineering Education in the College of Engineering, will present the workshop.

Engineers involved in management or project coordination in engineering and design firms, design and project managers, research and development officers and the creative arm of just about any organization, will

learn how the concept of intelligent fast failure could be the single most important concept to their success. In the Creating Ideas Session, they will experience the Group Systems VTM software and discover why corporate users feel this software leads to decisions in 80 percent less meeting time and elicits whole-team response in the process.

For more information about the workshop and fees, contact Judy Hall, conference planner, The Pennsylvania State University, 225 Penn State Scanton, University Park, Pa. 16802-7002; phone (814) 863-5130, fax (814) 863-5175.

Lesh Lecture celebrates chemical information on computer

Ken Rouse, head of the Chemistry Library at the University of Wisconsin-Madison, will present the 1995 Lesh Lecture, "A Milestone in Chemical Information and CIC Cooperation: Beilstein's CrossFire," at 3:30 p.m. Monday, Oct. 23, in the Colonial Room of the Nittany Lion Inn on the University Park Campus.

Mr. Rouse has been at the Chemistry Library since 1974, where he has devoted much of his energy to electronic access and computer information. The Chemistry Library led the way in converting its holdings to be accessed on the General Library System, OPAC, and in introducing computerized circulation in branch libraries.

Workshop examines adolescents' problems

"Reviving Ophelia: Saving the Selves of Adolescent Girls," presented by Mary Pipher, author of the book by the same name, will be the topic of both a one-hour presentation and a full-day workshop.

The sessions are designed for parents, teachers, counselors, psychologists, therapists, social workers and others interested in adolescent development. Dr. Pipher, a clinical psychologist and author of the best-selling book, will discuss specific problems adolescent girls encounter in today's modern world and ways to help



Mary Pipher

them travel safely into adulthood.

At 8 p.m. Friday, Dec. 8, Dr. Pipher will present a one-hour presentation, followed by a question-and-answer session at The Penn State Scanton.

The fee for this session is \$15. From 8:30 a.m. to 3 p.m. Saturday, Dec. 9, at The Penn State Scanton she will present an in-depth workshop

for those who want a more clinical approach to the issues.

For registration or fee information, call Patricia Phillips at (814) 863-1738.

Lecture to explore history of Book-of-the-Month Club

Janice Radway, professor in the Literature Program at Duke University, will speak at 3:30 p.m. Thursday, Oct. 26, in the Rare Books Room of Pattee Library on the history of the Book-of-the-Month Club.

In doing research for her forthcoming book on BOMC, Dr. Radway gained access to the archives of the company (founded in 1926) and has learned a good deal about the jury process by which the selections were made—a topic of much controversy during the early history of the firm. This will be the subject of her lecture.

Dr. Radway's best-known book is *Reading the Romance: Women, Patriarchy, and Popular Culture* (1984).

She is co-editor of the volume covering the 20th century in the forthcoming *History of the Book in America*, a project sponsored by the American Antiquarian Society and published by Cambridge University Press.

The lecture is sponsored by the College of the Liberal Arts, the University Libraries, and the Department of English.

Promotions

Staff

Sheila M. Albert, staff assistant VII at The Hershey Medical Center.

Leann Anderson, staff assistant VIII in College of Engineering.

Wendy M. Baker, staff assistant VIII in Office of the President.

Sarah J. Barrier, staff assistant IV in College of Engineering.

Linda Bender, clinical program coordinator at The Hershey Medical Center.

Karen S. Berlew, staff assistant V at Penn State Wilkes-Barre Campus.

Loren G. Brewster, coordinator, Computer and Information Systems, at Penn State York Campus.

Karen M. Brinser, staff assistant VIII at The Hershey Medical Center.

Denise R. Brooks, external relations assistant in College of Education.

Jacqueline M. Calvin, coordinator, Computer and Information Services, at Penn State Schuylkill Campus.

Laurie E. Wiest, research support assistant at The Hershey Medical Center.

David W. Will, manager, Administrative Support Services, in College of Arts and Architecture.

Michael D. Yamell, inventory/accounts coordinator in Housing and Food Services.

Susan B. Yothers, space planning specialist in Office of Physical Plant.

Janet M. Zeager, staff assistant VI at The Hershey Medical Center.

Kathleen A. Zulick, business coordinator at The Hershey Medical Center.

Technical Service

Melody A. Boltz, patient service aide at The Hershey Medical Center.

Lance E. Lehman, store room worker in Housing and Food Services.

Jacob I. Leidy, campus bus driver in Business Services.

Cheryl A. Neff, dining hall worker A in Housing and Food Services.

Alumni Fellows

Liberal Arts cites executives for accomplishments

Distinguished Alumna Catherine A. Rein, executive vice president of Metropolitan Life Insurance Company, and Douglas L. Rock, chairman of the board and CEO of Smith International, Inc., have been named Alumni Fellows by the College of the Liberal Arts. They will visit the University Park Campus to meet with faculty and students during the last week of October. Their awards will be presented at a reception in their honor on Oct. 26.

Ms. Rein is in charge of the corporate ethics and compliance, external relations, facilities and services, human resources, information systems, medical and tax departments, and the Office of the Secretary at MetLife. She joined the company in 1985 as a vice



Catherine A. Rein

president in the human resources department. She was named senior vice president in 1988 and assumed her present position in 1989.

Before she joined MetLife, Ms. Rein served as vice president and general counsel for The Continental Group, Inc. Previously she was associated with the New York City law firm of Dewey, Ballantine, Bushby, Palmer & Wood.

Ms. Rein received her B.A. degree in labor studies and industrial relations, summa cum laude, in 1965 and her J.D. degree, cum laude, from New York University in 1968. She was named a Distinguished Alumna by Penn State in 1991 and is a member of the Penn State Alumni Association's Alumni Council.

Mr. Rock joined Smith International in 1974.



Douglas L. Rock

Before becoming president of Smith International Inc. in 1987, he was president of both the Smith Tool and the Drilco divisions and was also vice president in charge of research and engineering and manufacturing at Smith Tool. He was named chief executive officer in 1989 and chairman of the board in 1991.

Mr. Rock is a director of the Petroleum Equipment Suppliers Association, a finance committee member of the National Offshore Industries Association, a member of the American Petroleum Institute, Society of Petroleum Engineers and the International Association of Drilling Contractors.

Mr. Rock received a bachelor's degree in psychology at Penn State in 1968 and attended the Graduate School of Business Administration at The University of Chicago. He is a member of the Penn State Alumni Association.

Designation as Alumni Fellow is one of the highest honors the University bestows on its graduates, and is a lifelong designation. Sponsored by the Penn State Alumni Association and administered in cooperation with the colleges, the Alumni Fellows program is designed to link prominent graduates and current students, faculty, staff and administrators.

Colleges to jointly honor scientist

The Eberly College of Science and the College of Agricultural Sciences have jointly named Shirley Malcom, head of the Directorate for Education and Human Resources Programs of the American Association for the Advancement of Science, an Alumni Fellow. The award is the most prestigious honor given by the Penn State Alumni Association.

Both colleges will be hosts of a two-day visit by Dr. Malcom, from Oct. 30-31, during which she will interact with students, faculty and administrators throughout the University.

Dr. Malcom earned a bachelor's degree with distinction in zoology at the University of Washington in 1967, a master's degree in zoology and animal behavior at the University of California at Los Angeles in 1968, and a doctoral degree in ecology from Penn State in 1974.

She now serves as a member of the Eberly College of Science Minority Advisory Committee.

For more background information on Dr. Malcom, see the write-up on page 16 of the Sept. 21 issue of *Intercom*.

Behrend College lauds retired CEO

James O. Benson, a 1957 graduate with an associate degree in engineering, has been named Alumni Fellow by Penn State Erie, The Behrend College. He will be honored at the college on Oct. 25.

Mr. Benson is the retired chairman and CEO of PHB Inc., one of the nation's largest corporations specializing in die casting, machining and molding, and tool and die production. Early in his career, he purchased a small machining parts company and set up shop in his basement. Within two years,



James O. Benson

he acquired a partner and business was booming.

Over the years, he has owned and managed several successful companies. "Behrend gave me the background and the means to accomplish my goals," Mr. Benson said. "The close, personal interest shared by the faculty and staff helped me develop the ability to communicate with all types of people. I've used these solid principals in successfully dealing with business associates, employees and competitors."

As one of the founders and first president of the Penn State-Behrend Alumni Association, Mr. Benson maintains a close partnership with the college.

The Alumni Fellow award, presented by the Penn State Alumni Association, is administered in cooperation with the academic units. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.



BOOK SHELF

Dennis J. Phillips, associate librarian and head of the Library Learning Resource Center at the Penn State Allentown Campus, is the author of *The Tennis Scorebook*, published by Scarecrow Press, 1995.

Mr. Phillips' book contains an unprecedented amount of information sources on the sport of tennis. It is designed for use by sports historians, researchers, journalists, teaching

professionals, players and aficionados of the game looking for information about the current status of the sport and its personalities, as well as its rich and colorful history.

Many different types of print and nonprint sources written in several languages are contained in the book, which is divided into the following sections: information sources, subject bibliographies, biography, videos

and associations. There are more than 100 people listed in the biography section who are current and past players from around the world, coaches, officials, promoters, journalists and innovators who have contributed significantly to the sport.

Mr. Phillips is also the author of *Teaching, Coaching and Learning Tennis: An Annotated Bibliography* (Scarecrow Press, 1989), and is currently working on a book about women's tennis to be published by Greenwood Press Inc.

Helen A. Guthrie, professor emerita of nutrition and former holder of the Helen A. Guthrie Chair in Nutrition, and Mary Frances Picciano, professor of nutrition in the College of Health and Human Development, are

authors of a newly updated textbook, *Human Nutrition*.

The book offers nutrition fundamentals to students who plan careers in nutrition or health-related sciences, or those who wish to become well-informed consumers. It is intended to provide a comprehensive account of nutrition principles. Special features include a new chapter on food safety, an expanded discussion of trace minerals, and a review of popular nutrition topics such as trans fatty acids, artificial sweeteners, and vitamin-related compounds. Overview sections summarize the principles of digestion, absorption, and excretion, as well as distinguishing features of vitamins and minerals.

The book is published by Mosby of St. Louis, Mo.

**With
You!**

United Way

T H E P E N N S I L V A N I A C A M P A I G N

"As citizens of the community, we all have a responsibility to help those less fortunate. At Penn State, we recognize United Way as the organization that can help us do so."



United Way among the most gratifying. Total dollars raised in the community and on campus have quadrupled. The number of people participating by donating time and money has grown, and the enthusiasm for supporting United Way and its member agencies is exciting.

As President of Penn State, I'm pleased to be part of the United Way effort. While the figures show great improvements in dollars earned, there is still much to be done if Penn State as a whole, and Penn Staters as

Of the changes that have taken place at Penn State and in the community since I last lived here, I count the increased support for

individuals, are to make this a better place in which to live.

As citizens of the community, we all have a responsibility to help those less fortunate. At Penn State, we recognize United Way as the organization that can help us do so, and it is the only charitable organization for which payroll deductions are authorized. United Way organizations represent the needs of the communities in which they are located. With 23 campuses across the Commonwealth, we can make sure the interests of our employees are served, whether they wish to give of their dollars or need help offered by the agencies.

Please join with me and your coworkers to give of yourself and your dollars to make our community an even better place.

Graham B. Spanier
President, Penn State

Did you know...

Centre County United Way supports 29 member agencies in the following targeted care areas:

Help for the Hungry and Homeless

Support for Youth at Risk

Care for the Elderly and Disabled

Adult Basic Education and Rehabilitation

Community Building

Assistance for Families and Individuals in Crisis

Recycling Effort Supports United Way

This year, football fans at Beaver Stadium can support United Way by sorting their recyclables and taking them to the 20 recycling stations throughout the stadium parking lots. Scouts from the Juniata Valley Boy Scout Council and Hemlock Girl Scout Council are staffing the stations to answer questions on sorting recyclable glass and plastic bottles and steel and aluminum cans. The University has been guaranteed a minimum payment of \$8000 for the materials collected, but if everyone participates, the total amount raised could well exceed that figure. So do your part and "pitch in."

Message from the Campaign Chair

As chair of the University Park United Way Campaign, I recently had the privilege of participating in Centre County United Way's second annual Day of Caring. On September 27, I joined faculty, staff and students from the University and concerned citizens from across Centre County who volunteered their time and energy to needed projects at various United Way agencies. The impact of our combined efforts in a little over eight hours was amazing. Penn State's presence was felt across the county that day, through our participation in projects at more than 10 locations.

We are approaching our annual campaign, when full-time employees at University Park are asked to consider giving a financial contribution to support the work of United Way agencies. This year we have established an ambitious goal

continued on page 10



Dean Lamarline Hood (right), chair of the University Park United Way Campaign, and W. Herbert Schmidt, Jr., associate athletic director, were among the 4,000 volunteers who participated in this year's Day of Caring.

UNITED WAY MAKES A DIFFERENCE

A United Way agency helps a mother care for her son, who is blind.

"Aaron was born blind," says Colleen Swetland of her son, now four and a half years old. "When he was in vitro there was a problem, and his eyes didn't develop correctly. The doctors didn't know at first, but I suspected the blindness and brought it up during his two-month checkup. When it was confirmed, he went through several operations, but there isn't much we can do anymore to correct the problem. Basically, what we're working with now is what it's always going to be."

Aaron's blindness brought about many changes in Colleen's life, but assistance from United Way and the Easter Seals Society has made it easier for her to cope with his special needs. For the first several years of her son's life, Colleen, a publications

editor, he tends to turn into himself and not talk to other people around him unless somebody interacts with him to draw him out," Colleen says. "When he started going to Easter Seals, the staff worked with him to make him realize there are other children around him. When someone begins to speak, they try to address the person they're talking to by name so Aaron has some idea who's participating in the conversation. His ability to get along with people has increased tremendously since he started going to Easter Seals. He used to just cling to me or to another familiar person and not say anything. Even when he was addressed, he was shy and didn't want to speak. At Easter Seals they've worked with him, and he's become much more extroverted and

better able to cope with new people in unfamiliar situations. It's not as scary to him anymore."

Aaron also receives essential therapy sessions at Easter Seals. "He has a vision therapist as well as occupational and physical therapists and other specialists who help him catch up where he's fallen behind some of the other kids," Colleen says. "Depending on the schedule, therapists come to see him during either preschool or day care. That's been a real blessing. I'm a single parent, and it used to be extremely difficult to arrange therapists' sessions outside of working hours."

Easter Seals also is helping Aaron learn to get from point A to point B independently. "When he's walking down the hall, they give continued on the following page

At Easter Seals, you feel as if you're leaving your child with an extended family. You know they are going out of their way to take special care of the kids.

editor in Penn State's College of Earth and Mineral Sciences, was able to provide care for Aaron at home. But as he grew, his needs changed.

Now, through support from United Way, the Easter Seals Society provides day care and preschool for Aaron. "Easter Seals is a good organization for us because it provides such a friendly and caring environment," Colleen says. "It's hard for any parent to go to work and leave their child for somebody else to take care of all day. When you have a special-needs child, it becomes even more difficult, because you know how time-consuming and challenging a task this can be on some days. At Easter Seals, you feel as if you're leaving your child with an extended family. You know they are going out of their way to take special care of the kids."

Attending day care and preschool has made a world of difference to Aaron, too. "Because he can't



Colleen and Aaron Swetland

him verbal cues about direction or using his hand as a bumper so he doesn't run into things," Colleen says. "They teach him to begin by putting his back up against the wall so he has a point of reference to start from. Then they cue him to help him reach points of interest, like the cubby where he hangs his coat."

Colleen hopes that everyone realizes how important it is to support United Way. Without it, many people who need essential services would be left with few options.

"If Easter Seals didn't receive support from the United Way, the parents of children with special needs would really suffer," Colleen says. "There aren't many other day care centers around that are equipped to handle special-needs kids. I'm very grateful to United Way because the help I get from Easter Seals enables me to be employed. It's very comforting to know that someone else will take good care of my child while I'm at work."

Thanks

Thanks to the following units that have contributed goods and services to the 1995 University Park United Way Campaign

Center for the Performing Arts
College of Agricultural Sciences
College of Communications
College of Liberal Arts
Ice Pavilion
McCoy Natatorium
Microcomputer Order Center
Mittany Lion Inn
Noll Human Performance Lab
Office of Human Resources
Penn State Alumni Association
Penn State Bookstore
Penn State Catering
Penn State Golf Courses
Penn State SCANTICON
Poultry Science Club
Recreational Sports
Shaver's Creek Recreation Area
Smeal College of Business
Administration
State College Continuing and Distance Education Office
Stone Valley Recreation Area
University Creamery
University Resident Theatre Company
WPSX

Misfortune can happen to anyone. United Way helps people cope.

At 5:30 on a winter morning in 1994, Tina Hay awoke to one of a homeowner's worst nightmares—her house was on fire.

"I started in an upstairs bedroom," recalls Tina, who is assistant to the dean in the College of Health and Human Development. "I emptied a fire extinguisher onto the fire, and it had no effect at all. That's when I knew we were in trouble, so I called 911 and got us out of the house."

Tina and her tenant, a Penn State graduate student, fled in their pajamas and bare feet and watched helplessly from across the street as the fire consumed more and more of the house's interior. "I assume I was in shock, because in spite of what I was seeing, I thought that I'd be back in the house in a week or so," Tina says. "As it turns out, I couldn't move back in for six months."

The fire gutted the entire second floor and burned through the back of the house, destroying the electrical service entrance and raining sparks down on the firefighters. Rooms on the first floor were severely smoke damaged, and most of the contents were destroyed. "When I think back over what I lost, the only thing that truly matters is that one of my two cats died in the fire," Tina says. "That puts the rest into perspective. Most of what was destroyed—furniture, appliances, and all of my clothes—was replaceable."

While Tina was sorting through her damaged belongings and notifying family, friends, the insurance company and a building contractor, she had a welcome visitor. "I don't know who notified the Red Cross, but suddenly a volunteer was just there," she says. The Red Cross offered to help arrange temporary housing for Tina and her tenant, although each of them had friends to stay with. What proved to be most helpful was a set of Red Cross vouchers. "I had nothing to wear except some clothes that friends had lent or given me," Tina says. "Within a couple of days of the fire, I was able to use the vouchers to buy a pair of jeans, some cotton turtlenecks and a pair of sneakers. My tenant, who had no insurance, used her Red Cross vouchers to buy some clothes, a coat, groceries and toiletries."

"In the first week or so after the



Tina Hay and Cassidy

fire, I didn't know exactly what I was going to need, and I didn't know whether my homeowner's insurance would even cover the loss," Tina says. "The Red Cross provided a sort of bridge for me, to get me through until other types of help kicked in. Now I want to pay

the Red Cross back by making a donation to the United Way. Although I have been a supporter of United Way and a volunteer for one of its agencies, I never thought I would someday be a recipient of a United Way service. But what happened to me could happen to anybody."

In 1994, United Way agencies helped one in three people in Centre County:

- 1,565 disabled individuals were able to achieve their highest levels of independence.
- 1,387 victims of family violence and rape received care and support.
- 2,619 people were provided with emergency food supplies.
- 2,330 children and teenagers at risk benefited from counseling and learning programs.
- 1,776 men and women obtained legal and mediation advice.

A United Way agency helps an autistic child become an independent adult.

Raising an autistic child was a challenge for Berni and Glenn Sheaffer. With the help and support of the Association for Retarded Citizens (ARC), family, friends and others facing similar challenges, they succeeded. But seeing their child through to physical adulthood was only half the Sheaffers' battle.

"As Gregg was growing up, we met other parents through ARC who were dealing with the same types of problems, and that helped a lot," says Berni, assistant director of educational services for Penn State Public Broadcasting. "But it was always a dream of ours for Gregg to become an independent adult, holding down a job and earning money." Recently that dream came true when ARC helped Gregg to find steady employment at

a local supermarket.

"Nearly anyone can find a job, but keeping a job is another story," Berni continues. "Problems can arise at any workplace. But if Gregg has a problem at work, someone from ARC will come talk to him and help him through it. Even if there isn't a problem, ARC will periodically check with Gregg and his employer, just to keep things on track and see if they have any questions. They make sure Gregg is working as he should, and that he gets extra help if he needs it."

For the Sheaffers, ARC's job placement and counseling extended well beyond the workplace. "ARC coached Gregg, taught him how to ride the bus and get around town on his own," Berni explains. "He even has his own MAC card that he

uses to make purchases and to buy his own clothes. He's about as independent as a person can be, and I don't think that would have happened if it hadn't been for ARC."

The Sheaffers' experience with ARC has made them loyal supporters of the United Way. "All the agencies that get United Way funding help people like us—ordinary people who, for one reason or another, need some extra help," says Berni. "In our case, having ARC there means independence for Gregg, as well as for many other people. I'm proud to be able to give, and I'm proud when I see the high percentage of giving among my colleagues at work."

"When there's a United Way campaign, I always feel special signing up, because I know what a difference a United Way agency can make in people's lives," Berni says. "It has certainly made a difference in our lives."



Glenn and Berni Sheaffer

Message from the Campaign Chair continued from page 7

of \$400,000. With your help and the help of Penn State retirees and students, I am confident that we will succeed.

As Centre County's largest employer, the University traditionally provides one-third of the overall county campaign funding. In addition, our faculty, staff, students and retirees provide volunteer services for many of the United Way agencies. We all are the beneficiaries of the many services these agencies provide.

Within the next few weeks, a colleague who has volunteered his or her time to support the University Park United Way campaign will provide you with information about United Way agencies and the people they serve. Please take time to listen to them, to read about the impact these agencies have in the Centre Region and how you can lend your support through a contribution to the annual campaign.

This year's campaign theme "With You" says it all. With you, I know we can make this an even better place for all who live here.

Lawrence F. Wood
Dean, College of Agricultural Sciences

The ARTS

AT PENN STATE

Flute ensemble in concert

The Penn State Flute Ensemble, under the direction of **Eleanor Duncan Armstrong**, associate professor in the School of Music, will present a concert at 8 p.m. Monday, Oct. 23, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The 15 members of the ensemble will perform on C-flute, alto, piccolo and bass. Sonorities played during the performance can also be heard in the upcoming "Blue and White Montage" scheduled for 4 p.m. Homecoming Weekend, Sunday, Oct. 29, in the Eisenhower Auditorium. The Oct. 23 concert is free to the public.

Pianist at Fayette Campus

Calvin Jones, an internationally acclaimed pianist, will perform at the Penn State Fayette Campus on Tuesday, Oct. 24.

The 7:30 p.m. concert, which will be held in the J. Lewis Williams Building Auditorium, will feature selections from each of his three solo piano releases. While there is no charge for admission, reservations are recommended and can be made by calling (412) 430-4125.

Music for the French horn

A program of music for the French horn will be presented by **Lisa O. Bontrager**, associate professor in the School of Music, at 8 p.m. Tuesday, Oct. 24, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. Associate professor **Tim Shafer** will accompany her on some selections.

For the second half of the concert Ms. Bontrager will be joined by professional hornist **Kim Reese**, a doctoral student in music education; **Christopher Greene**, a master's student in horn performance; and **Andrea Henry**, a junior in horn performance.

Ms. Bontrager is a member of the Pennsylvania Quintet, principal horn of the Pennsylvania Centre Chamber Orchestra, principal tenor horn of the Brass Band of Battle Creek, and is a soloist/clinchier for Holton Horns of the Leblanc Corporation. She recently returned from

the 1995 International Horn Symposium held in Yamagata, Japan, where she performed as a soloist and participated in benefit concerts for earthquake victims. She also serves on the Advisory Council of the International Horn Society.

The concert is free to the public.

Mallet ensemble at Bach's Lunch

The Penn State Mallet Ensemble, under the direction of **Dan Armstrong**, associate professor of music, will perform for the Bach's Lunch concert series at 12:10 p.m. Thursday, Oct. 26, in the Helen Eakin Eisenhower Chapel on the University Park Campus. In case of inclement weather, the concert will be given in the College of Arts and Architecture School of Music Recital Hall.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The Mallet Ensemble was invited to perform at the Music Educators' National Conference in Rochester, N.Y. The ensemble will perform its annual fall concert Nov. 13 on the University Park Campus.

The audience is invited to take a brown bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the Bach's Lunch performance. Coffee and tea will be provided.

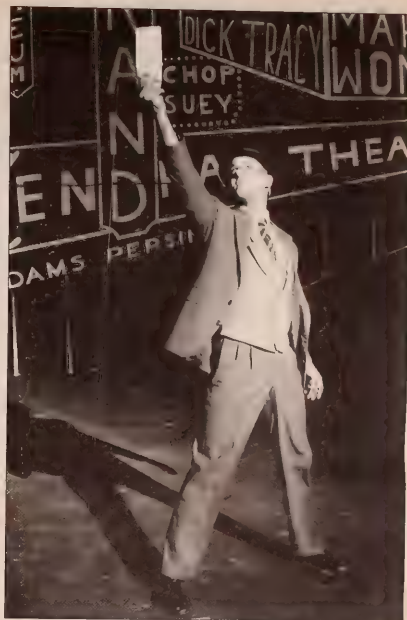
The concert and recital are free to the public.

Faculty recital

A faculty recital will be given by **Tim Hartz**, assistant professor of oboe, at 8 p.m. Thursday, Oct. 26, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Mr. Hartz will perform with guest artist **Douglas Rubio**, professor of guitar from the Crane School of Music at the State University of New York at Potsdam.

Mr. Hartz, now in his third year at Penn State, is a member of the Pennsylvania Quintet and has performed with major U.S. orchestras as well as performed recitals in the United States, Europe and Japan. He taught at Illinois State University for several years before joining the fac-



"Crazy for You" will be performed at 8 p.m. Friday and Saturday, Oct. 20 and 21, and at 3 p.m. Saturday, Oct. 21, in Eisenhower Auditorium on the University Park Campus.

ulty at the Crane School of Music.

The recital is free to the public.

"Measure for Measure"

"Measure for Measure," a production directed by **Lucien Douglas** and presented by the University Resident Theatre Company of the College of Arts and Architecture Department of Theatre Arts, will open at 8 p.m. Friday, Oct. 27, and continue through Saturday, Nov. 4, in the Playhouse Theatre on the University Park Campus.

The play was written by William Shakespeare and was first performed in 1604. The URTC production is restaged to modern day Vienna and tells the story of an overzealous deputy who seeks to reverse 14 years of moral decay by enforcing his maximum penalty, death.

Guest director Douglas received critical acclaim in the Broadway revival of "Medea." Further New York credits include featured roles in "Naked," "Candida," "Family Business" and "Rosencrantz and

Guidenstern are Dead."

All evening performances of "Measure for Measure" begin at 8 p.m. Student preview performances will be held at 8 p.m. Wednesday and Thursday, Oct. 25 and 26. A matinee will be presented at 2 p.m. Saturday, Nov. 4.

Tickets are \$9.50 and \$8.50 for adults; \$7.50, \$6.50 and \$5.50 for students. For ticket information contact the Arts Ticket Center, open 8:30 a.m.-4:30 p.m., Monday through Saturday, at (814) 863-0255.

Student art exhibited

Penn State student drawings, titled "New Descending a Staircase a la Marcel Duchamp," are on display in the corner store window of Tower of Glass, 137 W. Beaver Ave., in downtown State College through the end of October.

The exhibition features drawings by architecture students enrolled in the Arch 121 visual communication course taught by **Richard Alden**, assistant professor in the Department of Architecture.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, October 19

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Penn State Concert Choir.

Palmer Chair Lecture in Telecommunications Studies, 4 p.m., Carnegie Cinema. Robert E. Allen on "Information Unbound: Its Riches, Risks and Responsibilities."

Historic Landscape Issues Forum, 7 p.m. The Penn State Scanlon "Asset or Liability: History in Your Community," a program bringing together a national panel of experts focusing on the issues surrounding historic preservation and restoration in present-day communities. \$10 admission fee.

Lecture, 7:30 p.m., Palmer Ligon Auditorium. Wayne Miller on "A Life of Photography."

Penn State Objectivist Club, 8 p.m., 121 Sparks Bldg. Andrew Bernstein on "The Philosophical Basis of a Woman's Right to Abortion."

Friday, October 20

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "African Heads."

Office for Minority Faculty Development Workshop, 3 p.m., Penn State Room, Nittany Lion Inn. Moving From Associate to Full Professor. Call (814) 863-1663 to register.

Geography's Coffee Hour, 3:30 p.m., 206 Walker Building. Susan Squier on "Fetal Subjects and Maternal Objects: Reproductive Technology and the New Fetal/Maternal Relation."

Lady Lion Volleyball Faculty/Staff Night, 7:30 p.m., Rec Hall. PSU vs. Michigan. All faculty and staff and a guest are admitted free of charge.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Crazy for You." For tickets call (814) 863-0255. Also, Saturday, Oct. 21, 3 and 8 p.m.

Lecture, 8 p.m., Palmer Ligon Auditorium. Stefan Lorant, whose contribution to the history of photographic literacy is universally acknowledged, will speak about his life.

Saturday, October 21

African American Male Student Empowerment Summit. Paul Robeson Cultural Center. Discussion topics include: "Self-Empowerment," "Spiritual/Health Empowerment," and "Community/Political Empowerment." For more information, call (814) 865-3428.

Sunday, October 22

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Eiram Burk on "Wayne Miller's Hiroshima."

■ Film, 2 p.m., Palmer Ligon Auditorium. "Africa: The Rise of Nationalism."

■ Program in Jewish Studies, 8 p.m., Palmer Museum Auditorium. William Dever on "The Archaeology of Israel."

Monday, October 23

Penn State Catholic Community Faculty, noon, 212 Eisenhower Chapel. Bud Horel on "How Does a Professional Lay Person's Faith Make a Difference?"

Gay, Lesbian, Bisexual Lecture Series, 1 p.m., Fizzell Room, Eisenhower Chapel. Harmony Hammond, sculpture, slide presentation of work. At 7 p.m. 105F Room, Ms. Hammond on "Issues of Lesbian Self-Representation in Visual Arts."



The Center for the Performing Arts presents the National Band of New Zealand in a performance at 8 p.m. Oct. 25 in Eisenhower Auditorium on the University Park Campus.

President Graham Spanier will hold an Open House, 3-6 p.m., 201 Old Main. Lesh Lecture, 3:30 p.m., Colonial Room, Nittany Lion Inn. Ken Rouse on "A Milestone in Chemical Information and CIC Cooperation: Beilstein's CrossFire."

Marker Lecture in Chemical Sciences, 8 p.m., 104 Keller. Royce W. Murray on "Molecular Monolayers on Highly Curved Surfaces: Metal Cluster Compounds Based on Alkanethiols."

School of Music, 8 p.m., Recital Hall. Penn State Fute Ensemble.

Tuesday, October 24

Marker Lecture in the Chemical Sciences, 4 p.m., S-5 Osmond Lab. Royce W. Murray on "Molecular Monolayers on Flat Metal Surfaces: Controlling Distance, Orientation, Reactivity."

The Center for Ethics and Religious Affairs, 7:30 p.m., Paul Robeson Cultural Center. Emile M. Townes on "And All the Colored Folks is Cursed: The Impact of HIV/AIDS on the African-American Community."

HUB "Distinctive Styles," 8 p.m., HUB Fishbowl. "Whiskey Tango," two musicians, one guitar, one violin.

School of Music, 8 p.m., Recital Hall. Lisa O. Brontager, horn.

Wednesday, October 25

Center for Women Students, noon, 120 Boucke Bldg. Sabrina C. Chapman on "Classroom Climate Issues for Women."

Division of Undergraduate Studies/Academic Advising, noon, 305 HUB. "Sharing Resources: What's in Print and Where Can I Get It?"

Penn State Chapter of the National Association of Science Writers, noon, lobby of Breazeale Nuclear Reactor. Field trip to the Breazeale Nuclear Reactor and Radiation Science and Engineering Center. Candace Davison will discuss reactor's design and varied uses and the center's activities, then will lead a tour of facility.

Marker Lecture in the Chemical Sciences, 12:15 p.m., S-5 Osmond Lab. Royce W. Murray on "Electron Self-Exchange Reactions in Polymers and Molecular Melts."

Labor History Workshop, 3 p.m., 102 Weaver Bldg. Bob Russell on "From College to the Ranks of Labor: Powers Haggood and the United Mine Workers of America, 1920-1922."

■ The Central Pa. Chapter of The Fulbright Association, 5 p.m., 222 Boucke Bldg. Martin Ibarra and Marguerite Halen on "Nicaragua: Two Views," a lecture with slide presentation.

Shaver's Creek, 7 p.m. Halloween Trail Dress Rehearsal.

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. National Band of New Zealand. For tickets, call (814) 863-0255.

Thursday, October 26

Sigma Xi Lecture, noon, 305 HUB. Richard Frisque on "JC Virus, An Emerging Pathogen."

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Penn State Mallet Ensemble.

Gay, Lesbian, Bisexual Lecture Series, 1 p.m., Palmer Museum Auditorium. Robert Repinski, printmaker, slide presentation of work. At 7 p.m., 101 Classroom Bldg. Mr. Repinski on "Artists and Models: Gay Men in Visual Art."

Center for the History of the Book, 3:30 p.m., Rare Books Room, Patten Library. Janice Radway on "The History of the Book-of-the-Month Club."

■ Hispanic Heritage Month kickoff ceremony, 5:30 p.m., 112 Kern Bldg. President Graham Spanier will give opening remarks. Mosca Arcega will be keynote speaker. November is Hispanic Heritage Month.

Shaver's Creek, 7 p.m. Pumpkin Carving. Call (814) 863-2000.

■ Lecture, 7:30 p.m., Palmer Ligon Auditorium. Kay Picart on "Give Us This Day: Philippine Painting as Protest and Prayer."

School of Music, 8 p.m., Recital Hall. Tim Hurtz, oboe.

Friday, October 27

Halloween Trails at Shaver's Creek Environmental Center. Haunted Forest Trail and Children's Magical Trail. Through Oct. 29. Call (814) 863-2000.

■ Gallery Talk, 1:30 p.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "African Art at the Palmer Museum."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. The Saint Paul Chamber Orchestra. For tickets, call (814) 863-0255.

University Resident Theatre Company, 8 p.m., The Playhouse. "Measure for Measure" by William Shakespeare. Through Nov. 4. For tickets call (814) 863-0255.

Saturday, October 28

Gallery Talk, 11:30 a.m., Christoffers Lobby, Palmer Museum. Eiram Burk on "Bay Area Artists."

School of Music, 7:30 p.m., Schwab Auditorium. Penn State Glee Club Homecoming Concert. For tickets, call (814) 863-0255.

Sunday, October 29

■ Daylight Savings time begins. (2 a.m.)

■ Film, 2 p.m., Palmer Ligon Auditorium.

"Africa: The Legacy."

School of Music, 4 p.m., Eisenhower Auditorium. A Blue and White Montage. For tickets, call (814) 863-0255.

SEMINARS

Thursday, October 19

Ceramic Sciences, 11 a.m., 301 Steidle Bldg. Gerald Jellison on "Optical Functions of Transparent Materials Determined by Spectroscopic Ellipsometry."

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. Marc Hertz on "Higher-Dimensional Chern Simons Theories."

Economics, 2:30 p.m., 413 Kern. Neil Ericson on "Lucas Critique in Practice: Theory Without Measurement."

Friday, October 20

Philosophy, 4 p.m., 124 Sparks. Carl Vaught on "Metaphysics and the Future of Philosophy."

Monday, October 23

■ Jewish Studies, 3:30 p.m., Ballroom DE, Nittany Lion Inn. Nathan Katz on "The Last Jews of Cochiti."

Plant Pathology, 3:30 p.m., 112 Buckhout. Larry D. Schaff on "The Lutealless Classroom: Innovations in Science Teaching."

Tuesday, October 24

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Pablo Dabeneletti on "Towards and Understanding of Super Cooled and Glassy Polymers."

IPRE/GSPSA, 3 p.m., 12 Sparks Bldg. James Fairweather on "Faculty Work and Public Trust."

Biology, 4 p.m., 8 Mueller Lab. Lauren Mulleaux on "Dispersion of Larvae Between Hydrothermal Vents."

Graduate Program in Nutrition, 4 p.m., S209 Henderson Bldg. Irwin H. Rosenberg on "Emerging Issues on Food and Acid and Health."

Human Development and Family Studies, 4 p.m., 301 HUB. Denise Park on "Remembering to Take Medications: Development of Successful Interventions."

Geosciences, 4 p.m., 26 Hostler. Richard Stanton on "Volcanic Processes and Massive Sulfide Formation."

Wednesday, October 25

International Programs, 9 a.m., 222 Boucke Bldg. C. Gregory Knight on his Fulbright experience at American University in Bulgaria. Discussion titled "Taking Geography 2" includes a video about American University.

Gerontology, noon, 101 H&H East. James Marden on "Aging and Physiological Performance in a Model Insect."

See "Calendar" on page 15

Calendar

continued from page 14

SEMINARS

Thursday, October 26

Ceramic Science, 11 a.m., 301 Steidle Bldg. George Nancollas on "Physical Chemical Studies of the Kinetics of Crystal Growth and Dissolution of Minerals: Applications to Surface Characterization."

Economics, 2:30 p.m., 413 Kern. Ed Coulson on "The Location of Sources of Growth of U.S. Income."

Friday, October 27

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Katharine Freeman on "Molecular and Isotopic Markers of Environmental Change in Modern and Ancient Oceans."

Agronomy, 3:35 p.m., 101 ASI. Elson Silva on "Analysis of Rainfall Distribution in the Amazon Basin using Kriging, nonparametric Statistics, and GIS."

Philosophy, 4 p.m., 124 Sparks. Carl Hausman on "Peace and the Future of Philosophy."

CONFERENCES

Thursday, October 19

Asset or Liability — History in Your Community, 150 attendees, The Penn State Scenicton.

Improving School Consultation Skills, 98 attendees, The Nittany Lion Inn.

CAD for Mine Planning, 15 attendees, The Penn State Scenicton. Through Oct. 20.

Cooperative Vocational Education, 100 attendees, The Penn State Scenicton. Through Oct. 20.

Friday, October 20

Psychology Series Fall Workshop, 150 attendees, The Penn State Scenicton.

Saturday, October 21

Water Kaitz Fellows Orientation Program, 60 attendees, The Penn State Scenicton. Through Oct. 26.

Society for Photographic Education Conference, 9:30 a.m.-5 p.m., Palmer Lipson Auditorium. To register, call (814) 865-7672.

Sports Nutrition for Young Athletes — A Guide for Parents, 100 attendees, The Penn State Scenicton. Kristine Clark will be instructing the workshop. Call (814) 865-0287.

Monday, October 23

Municipal Officer's Advanced Driving Course, 30 attendees, Through Oct. 26.

Underwater Acoustics and Signal Processing, 40 attendees, The Penn State Scenicton. Through Oct. 27.

CREAD 95 United States Site, 75 attendees, The Penn State Scenicton. Through Oct. 27.

Tuesday, October 24

Separation and Purification Strategies, 18 attendees, The Nittany Lion Inn. Through Oct. 27.

Wednesday, October 25

Multimedia Applications Made Easy, 30 attendees, The Penn State Scenicton.

Friday, October 27

HBI Investments \$35, 1-5 p.m., The Penn State Scenicton. J. Randall Woolridge will discuss general financial themes. To register, call (800) PSU-TODAY.

Alumni Investment Seminar, 25 attendees

CEAPA Professional Development, 50 attendees, The Penn State Scenicton.

Pain Management Conference, 50 attendees, The Penn State Scenicton.

EXHIBITS

HUB Browning Gallery:

Oil paintings by Joanne Landis, through Oct. 22. Paintings consist of abstract impressionism full of round female forms in vivacious colors.

Formal Gallery:

Paintings by Frank Diaz Escalante, through Oct. 21. Paintings reflect lifetime experiences.



The St. Paul Chamber Orchestra will perform at 8 p.m. Friday, Oct. 27, in Eisenhower Auditorium on the University Park Campus.

Art Alley:

Photographs by Jane Levine which chronicle the successes of the Apprenticeships in Traditions Arts Program. Through Oct. 22.

Kern Exhibition Area:

Wooden birchbushes by Vicki Sellers, through Oct. 24.

Photography of Genevieve Durang, through Oct. 24.

Palmer Museum:

■ "Sleeping Beauties: African Headrests from the Jarome L. Joss Collection at UCLA," through Dec. 3.

■ "Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10, 1996.

Pattie

Maps Room (202C):

"Maps and the Columbian Encounter," maps and illustrations from the 13th through the 17th centuries, through Oct. 23.

East Corridor Gallery:

■ "Visual Meditations," by Greta Ehrig. Using oil, watercolor, and pencil on floral subjects. Through Oct. 31.

Zoller Gallery:

■ "Terrestrial Bodies," through Nov. 5. Features an eclectic group of 13 New York City artists.

■ Reflects an international perspective

TIPS

Information Penn State

Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather — 234; Arts Line — 345; University Calendar — 456.

Faculty/Staff Alerts

Kern facilities reservation

Academic and administrative offices, faculty organizations and registered graduate student organizations planning to use Kern Graduate Commons facilities for spring semester activities, programs, meetings and social events should make reservations now. Space is limited and all facilities are on a "first-come-first-serve" basis. Call (814) 865-3027.

Advising lunches continue

Again this semester, the Division of Undergraduate Studies (DUS) will host a series of brown-bag lunches on academic advising. The series gives advisers an opportunity for professional development and networking. All Penn State faculty and staff interested in undergraduate advising may attend the lunches from noon to 1 p.m. in 305 HUB on the University Park Campus.

The schedule is: Wednesday, Oct. 25, "Sharing Resources: What's in Print and Where Can I Get It?" Participants may bring materials they find helpful when advising students; Friday, Nov. 17, "Working with the Registrar's Office," a discussion led by Garry Burke, director of enrollment management; Monday, Dec. 4, "Listening Skills for Academic Advisers," a workshop featuring Joyce Buck, DUS programs coordinator, College of Arts and Architecture, Terry Musser, management assistant, DUS, and Stan Supon, DUS programs coordinator, The Smell College of Business Administration.

For more information, contact Laura Brown, 205 Grange Building, (814) 865-7576, L5B1@OAS.PSU.EDU.

EAP courses

Understanding your EAP (Wel 048, Sect. 003). Provides an overview of EAP services and a brief illustration of the counseling process. Meets Thursday, Nov. 2, from 8:15-9 a.m. in 125 Reber Building. Cost: None.

EAP: The Supervisor's Role (LDR 017, Sect. 003). Illustrates how a supervisor may interact with the employee relations division, human resources representatives and the EAP when an employee's personal problems affect his/her work. Meets Thursday, Nov. 2, from 8:15-10 a.m. in 125 Reber Building. Cost: None.

To register for courses, contact Jan Hawbaker at 865-3085 or JQH3@psu.adm.in.

HRDC Courses

The following courses are being offered by the Human Resource Development Center. To register for free courses, call 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog.

Introduction To The Internet (MAC 011) Meets Thursday, Nov. 9, from 9 a.m.-noon in Room B Penn State Scenicton; cost: \$90.

Meeting and Retreat Planning (PRO 030) Meets Thursday, Nov. 9, from 8:30-11:30 a.m. in 319 Rider Building; cost: \$35.

Process Definition and Mapping (CQI 037) Meets Friday, Nov. 10, from 1:30-3:30 p.m. in 319 Rider Building; cost: none.

Introduction To The Macintosh (MAC 001) Meets Monday, Nov. 13, from 9 a.m.-4 p.m. in 117 Wagner Building; cost: \$90.

The Service Management Concept (CUS 002) Meets Monday, Nov. 13, from 2:00-4:00 p.m. in 319 Rider Building; cost: \$85.

Facilitation Skills For Leaders (LDR 023) Meets Tuesday, Nov. 14, from 9 a.m.-4 p.m.; cost: \$55.

Introduction To Hyper Text Markup Language (HTML) (MAC 012) Meets Tuesday, Nov. 14, from 9 a.m.-noon in Room B Penn State Scenicton; cost: \$90.

Men and Women: Partners At Work (PRO 061) Meets Wednesday, Nov. 15, from 1:30-4:30 p.m. in 319 Rider Building; cost: \$35.00.

Successful Cross-Cultural Communication (IHC 026) Meets Thursday, Nov. 16, from 8:30 a.m.-noon in 319 Rider Building; cost: \$35.

Introduction To IBIS Financial (PRO 059) Meets Friday, Nov. 17, from 2-4 p.m. in Kern Auditorium; cost: none.

Coaching For Exceptional Performance (LDR 022) Meets Tuesday, Nov. 28, from 8:15-11:45 a.m. in 319 Rider Building; cost: \$35.

Designing And Delivering Oral Presentations (IHC 014) Meets Monday, Nov. 20, from 1:30-4:45 p.m. in 319 Rider Building; cost: \$40.



Returning for a visit

Kerry Boyko shows a kestrel falcon to the DeHaven family. Sandy (Class of 1980), Curtis, and sons Alex and Jacob. The DeHavens were visiting a Shaver's Creek Environmental Center exhibit at the Hetzel Union Building on the University Park Campus Saturday for Fall Alumni Weekend.

Photo: Greg Grieco

Bellefonte welcomes Fulbright Scholars

The community of Bellefonte will be host for the University's Visiting Fulbright Scholars on Saturday, Nov. 4.

The purpose of "Bellefonte Welcomes the Fulbright Scholars Day" is to introduce the scholars, who currently are in residency at Penn State for the year, to the lives of people in Centre County. It is part of the monthlong Fulbright Association 50th Anniversary Celebration at the University.

"Bellefonte is particularly suited for this special program because of its historical, economic and governmental environments," said **Robert Ott**, Bellefonte Day chair and secretary/treasurer of the Central Pennsylvania Fulbright Association.

"We want these scholars to know how people live their daily lives in Centre County and the quality of life at the University."

The daylong program will open at 9:30 a.m. at the Center County Historical Museum with an introduction and welcoming ceremony featuring Bellefonte Mayor **Candace Dannaker**. It will be followed by a tour of historic downtown Bellefonte.

A special luncheon with members of the Central Pennsylvania Fulbright Association Board of Directors will be held at the Gamble Mill Restaurant. After the luncheon, Judge **Charles C. Brown** will give a briefing on the government of Centre County. It will be followed by a tour of the historic Centre County Courthouse.

The final session on restoration and contemporary uses of historic building also will include a traditional tea at the Reynolds Mansion.

For further information, contact Dr. Ott at (814) 865-6570.

News in Brief

Science writers' field trip

The Penn State Chapter of the National Association of Science Writers will hold a noon field trip on Wednesday Oct. 25, to the Breazeale Nuclear Reactor and Radiation Science and Engineering Center on the University Park Campus.

Candace Davison, reactor operator, will be host for the trip. During a brown-bag lunch, she will discuss the reactor's design and varied uses and the center's activities. She will then lead a tour of the facility. After the tour, the chapter will hold its monthly business meeting.

To attend the program, meet at noon in the facility's lobby. The reactor/center is near the intersection of Hastings and Bigler roads.

NASW luncheon programs are open to anyone interested in science communication. For more information, contact **Scott Turner**, 865-9481 (or stt11@psu.edu) or **A'ndrea Messer**, 865-9481 (or aem16@psuvm.psu.edu).

Paid subjects needed

Female and male subjects between 40 and 70 years old are needed for a study of motion sickness. Susceptible and non-susceptible subjects are needed.

The study has been approved by the Penn State Use of Human Subjects Committee, and is directed by **Robert M. Stern**, Distinguished Professor of psychology.

For more information call **Rosemarie Hibbler** between 7:30 a.m. and 3:30 p.m., at 865-1725.

Pedestrian safety

University Safety reminds motorists that pedestrians have the right of way, and, with days becoming shorter, urge special caution when driving on the University Park Campus.

At the same time, pedestrians and joggers are encouraged to wear light clothing and stay on sidewalks and off campus streets.



Support services

Have you wanted assistance in CQI but found that the courses offered by the CQI Center and HRDC either did not meet your (or your team's) needs or did not fit your schedules? **Barbara Sherlock**, HRDC's CQI specialist, will provide CQI consulting services on a variety of topics, including the use of the IMPROVE problem-solving model, check sheets, Pareto charts, scatter diagrams, process definition and mapping, and team building. For example, Ms. Sherlock is meeting with four groups from the Office of Student Affairs to teach process mapping; she will travel to Penn State Harrisburg next month to offer several of the CQI Tool Kit courses; she will satisfy her customers in the Office of Undergraduate Education's Process Improvement Group by offering training on CQI tools and facilitation skills; and she will teach a course on team building to the Design Development team in the Office of Physical Plant. If you would like to discuss CQI support services with Ms. Sherlock, please call (814) 865-1413, or E-mail bj512@psuadmin.psu.edu.

New names streamline processes

Several new CQI teams have formed:

Graduate Student Processing in the School of Forest Resources — Study the process of admitting graduate students to the school from first point of contact through orientation. The team sponsor is **Larry Nielsen**; the leader is **Henry Gerhold**; and the facilitator is **Dale Punshon**.

Efficient Operations in Fleet Services — Study the workflow in Fleet Operations to streamline processes obtaining maximum operational efficiency, resulting in lower costs and improved customer service. The team sponsor is **Betty Roberts**; the leader is **Bruce Younkun**; and the facilitator is **Barb Lyke**.

Workflow through the Copy Center and Bindery — Streamline the workflow processes from the Copy Center to binding to the customer. The sponsor is **Gale Bowman**; the leader is to be chosen by the team; and the facilitator is **Steve Brawley**.

Accounting Operations and Purchasing Services Joint CQI Team — Study and improve the process of invoice payment by University Purchasing Services. The team's sponsors are **Mike Gerber** and **Jim Dunlop**; the leader is **Nancy Hommel**; and the facilitator is **Frank Gibboney**.

One-stop-shopping in the Bursar's Office — Streamline and integrate functions at various Bursar's windows that are frequented by students. The team sponsor is **Roseann Sieminski**; the leader is **Sue Wiedemer**; and the facilitator is **Mike McFadden**.

If you would like more information about CQI, please contact **Louise Sandmeyer**, executive director of the CQI Center, at (814) 863-8721 or E-mail les1@psu.edu.

Private Giving

Alumni coupe donates \$1 million to University

Penn State graduates **Ira M. and Karen Lubert**, who say their abiding affection for the University goes back to their days as undergraduates, have given \$1 million to Penn State.

Most of the Luberts' gift — \$700,000 — has established the first endowment of wrestling coach positions at Penn State. It also is the first known wrestling endowment in the Big Ten Conference.

The endowment will be activated when it reaches the \$2 million level. A portion of its annual earnings will then provide permanent base compensation for wrestling coaches. The Luberts and the University hope this gift and the endowment idea will attract other gifts and provide enhanced support for all intercollegiate coaches.

The University invests endowed funds and uses spendable income as designated by the donor.

Ira Lubert graduated from Penn State in 1973 with a degree in food service and hotel administration. Karen Matheny Lubert earned a degree in elementary education from Penn State in 1971. They live in Moorestown, N.J.

A former Penn State wrestler and alternate member of the 1972 U.S. Olympic Wrestling Team, Ira Lubert has shown a continuing interest in the development of youth in the sport of wrestling.

Among the following additional designations, the Luberts made for their gift are:

- \$100,000 will establish the Karen and Ira Lubert Endowment for needy undergraduate students at the Penn State Abington-Ogontz Campus;

- \$75,000 to a scholarship for wrestlers established by the Luberts in 1989;

- \$60,000 to the Student Professional Development Endowment in the School of Hotel, Restaurant and Recreational Management;

- \$30,000 to the Student/Faculty Enhancement Fund in the College of Health and Human Development; and

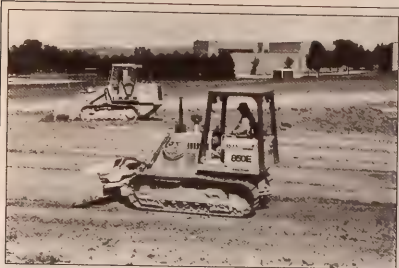
- \$25,000 for the Penn State All-Sports Hall of Fame.

Mr. Lubert is managing director of Technology Leaders II L.P., both venture capital funds owned by Safeguard Scientifics Inc. He is also a partner in PSRR Developers Inc., a private corporation carrying on the future development of the Penn State Research Park. In addition, he is president and principal owner of IL Management Inc., a marketing/consulting firm, and he oversees the acquisition strategy for GP Management, a company specializing in owning and managing under-performing hospitality properties.

Mr. Lubert is former vice president of acquisitions at Safeguard Scientifics and a former chairman of the board and president of CompuCom Systems. Earlier in his career, he was a regional new business manager at IBM, where he was named to the 100 Percent Club and was the first person in IBM history to win two consecutive "Eagle Awards" recognizing the top 10 percent of sales achievement.

He recently received the Alumni Fellow Award from the College of Health and Human Development. He is past president of the Abington-Ogontz Campus board of advisers.

The Luberts have two children: Jonathan, 15, and Kristine, 11.



Making the earth move

Workers from Bentzel Construction Co., York, donated time and equipment to excavate and grade an NCAA soccer field at the Penn State York Campus. The field will be used for campus and community events. The work is valued at an estimated \$65,000.

Construction firm donates services to build soccer field

An estimated \$65,000 in-kind donation from a construction firm is helping the Penn State York Campus fulfill a long-standing promise to the City of York to create recreational areas on campus.

Bentzel Construction Co., a local firm, began excavating and grading a portion of a 33-acre site for use as an NCAA soccer field. The construction of the soccer field is just a small part of a larger plan for the York Campus to provide additional recreational facilities for the campus and community.

The plan, created in 1990, resulted when the City of York — which owned the property — agreed to deed the 33 acres to the campus. In return, the campus agreed to develop portions of the property for civic and recreational use.

York Campus had been working for a number of years to get the needed funds to construct the field, but was unsuccessful. Several months ago, Art Glatfelter, a member of the York Advisory Board, contacted Bentzel Construction, which agreed to provide the work free of charge.

"We are grateful for the community support that's helping build this Penn State York/community facility," Donald A. Gogniat, York CEO, said. "The NCAA soccer field, planned youth soccer fields and tennis courts will see many county youth and students taking advantage of this unselfish act by Bentzel Construction."

The fields, still under construction, will be seeded this fall and ready for use in 1996.

Beaver Stadium recycling effort raises \$3,800 for the United Way

Proceeds from the sale of recyclables from the Beaver Stadium recycling effort are being contributed to the United Way as part of Penn State's campaign. So far, recycling efforts at football games have raised \$3,800 for the United Way through the first three home games.

Beside the cash contribution being made, several businesses have provided in-kind support in this effort.

Subway Restaurants of State College have provided food valued at \$600 for all the Boy Scouts and Girl Scouts who have worked at the games collecting recyclables.

The Steel Recycling Institute provided

\$3,500 support in the form of hats used to identify the recycling workers.

The Glass Packaging Institute, at \$3,500, and Print-It Plus, at \$600, also provided in-kind support by producing promotional brochures.

"The recycling effort is a one-of-a-kind endeavor that is unique to Beaver Stadium," Philip Melnick, manager of building trades and solid waste disposal, said. "The cooperation by all parties, has been tremendous and the results speak volumes about Penn State fans' concern for the environment and the community."

Faculty Senate News

The University Faculty Senate will meet at 1:30 p.m. Tuesday, Oct. 24, in Room 112 Kern Graduate Building on the University Park Campus.

Items to be addressed include:

- Curricular coherence and relevance report (forensic)
- Credit by transfer from other institutions — credit by validation (legislative)
- Annual Report of Academic Eligibility and Athletic Scholarships for 1994-95 (informational)
- Survey of full-time fac-

ulty: Results about outreach (informational)

- Curriculum report of Oct. 12

Members of the University community are invited to attend. Any member of the University Community not a member of the Senate may request the privilege of the floor on any item of business already before the Senate. Such a request must be made to the chair, through the executive secretary of the Senate, at least four calendar days before the meeting.

Awards

Two on H&HD faculty cited for their research

Two faculty members have won research awards from the College of Health and Human Development.

John Milner will receive this year's Pauline Schmitt Russell Distinguished Research Career Award. **Steven Zarit** has been chosen for the 1995 Evan G. and Helen G. Pattishall Outstanding Research Achievement Award.

Dr. Milner is professor of nutrition and head of the Department of Nutrition. An internationally recognized investigator, he has examined the biochemical basis by which several nutrients modify growth, development and risk for disease.

Most recently, Dr. Milner and his research team studied the ability of garlic and related foods to inhibit several types of cancer. Their studies have shown that compounds within garlic can inhibit the chemically caused conversion of normal cells to tumor cells.

His work has appeared in a range of scientific journals, including *Science*, *Nature* and the *Journal of Nutrition and Carcinogenesis*.

Dr. Milner is president of the American Institute of Nutrition and was its 1984 recipient of Bio-Serv Award in Experimental Nutrition, given to out-



John Milner

Department of Human Development and Family Studies and assistant director of the college's Gerontology Center.

He is considered an international leader in research on caregiving for impaired elderly. His work has helped other researchers and the public understand that the consequences of Alzheimer's

standing researchers who have held a doctorate less than 10 years. He is also a Fellow of the American Association for the Advancement of Science.

In 1993 he received a Faculty Scholar Medal from Penn State for outstanding research in life and health sciences.

Dr. Zarit is professor of human development in the Department of Human Development and Family Studies and assistant director of the college's Gerontology Center.



Steven Zarit

Geriatric Psychology and the *Journal of Aging and Health*.

He is past president of the adult development and aging division of the American Psychological Association and has served on many of its committees. He is former chair of the aging subcommittee for the National Institute of Mental Health.

disease extend beyond the patient to affect caregivers, families and others in the elderly person's social system.

Dr. Zarit came to Penn State in 1986 and since then has published more than 50 chapters and articles, co-authored one book, and co-edited two books.

He serves on editorial boards of the *American Journal of*

Associate professor honored with teaching and achievement awards

Lori Bechtel, associate professor of biobehavioral health in the College of Health and Human Development, has received the college's first Commonwealth Educational System Faculty Achievement Award. She is also the recipient of this year's Dorothy Jones Barnes Teaching Award.

The achievement award, which was established to honor a CES faculty member in the college who makes unique contributions to both the college and the campus community, recognizes excellence in teaching, advising and service.

The Barnes Award honors both excellence in teaching and contributions to the art of teaching. It is supported by an endowment from **Dorothy Jones Barnes**, a 1944 graduate in home economics, and her husband, **William T. Barnes, M.D.**

Dr. Bechtel's service to the University, her community and her profession has been exemplary, according to nomination letters submitted by colleagues and students. Since joining Penn State in 1984, her teaching evaluations have been among the highest both at the Penn State Altoona Campus and



Lori Bechtel

within the Department of Health Education. Her courses consistently rank among the most sought after by students.

She feels that learning should and can be fun. A colleague says Dr. Bechtel "takes her subject matter seriously and at the same time she enjoys teaching. Her caring nature is genuine as evidenced in her belief that 'every learner is a potential teacher and every teacher is a potential learner.'"

Dr. Bechtel has received several teaching, advising and service awards, including two Penn State honors in 1993: the George W. Atherton Award for Excellence in Teaching and the Grace D. Long Award for Faculty Excellence.

In 1989, she received the Outstanding Faculty/Adviser Award from the student government association of the Altoona Campus. She also was awarded the 1994 Pennsylvania School Health Association Distinguished Service Award.

Her research interest is in primary prevention, specifically in comprehensive school health education, curriculum development and teaching.

Development director wins achievement

Martha L. Starling, director of development for the College of Health and Human Development, has won the college's 1995 Carol Clark Ford Staff Achievement Award.

The award recognizes a staff member in the college who "makes it easier for others to accomplish their objectives effectively and efficiently."

It was endowed by **Donald Ford**, dean emeritus of the former College of Human Development, in honor of his wife, **Carol Clark Ford**.

"Marthy's eternal optimism, her efficient use of limited resources, and her relentless pursuit of support for the scholarly and educational functions of the entire College of Health and Human Development, have benefited countless numbers of people," wrote colleagues in nominating her for the award.

Dr. Starling earned a master's degree and a doctorate in the college, where she has held several professional positions, both academic and administrative; she served as a member of the faculty in the former clothing and textiles program and has been assistant director and director of alumni relations and senior development officer.

Among her accomplishments are the establishment of endowments for faculty positions and support for students and programs; securing strategic alliances with alumni and friends who wish to invest in the college's future; the Mater Building campaign; and significant increases in private giving. Community agencies have benefited from her talents as well; she has been a member of the board of directors of the Centre County United Way since 1990 and served as chair of the board from 1992-1994.

Shenango associate professor lauded with inaugural outstanding mentor award

Kevin J. H. Berland, associate professor of English and comparative literature at the Penn State Shenango Campus, is the first recipient of the Outstanding Mentor Award, recognizing his efforts in support of adult learners.

Dr. Berland, who at one time was a returning adult student himself, says he is particularly aware of the challenges faced by students returning to college after a long absence. At the Shenango Campus, more than half of the students are returning adult learners.

Dr. Berland serves as coordinator of the campus Honors Program and is a member of the Faculty Senate and several University committees. Two of his students have received Outstanding Adult Student Awards.

The mentoring award is co-sponsored by the Alpha Sigma Lambda National Honor Society, the Penn State Adult Learners Group, the Graduate Student Association, Penn State Veterans Organization and the Student Parent Organization of Penn State.

Local stream-preservation project may help other cities nationwide

A new plan to save a pristine trout stream in fast-growing Central Pennsylvania can also help developing cities elsewhere in the nation protect their natural features.

"The effort to protect Spring Creek is a vision for life in budding U.S. cities," Neil Korostoff, associate professor of landscape architecture, said. "Many opportunities exist in new metro areas for making more livable cities and for starting conservation efforts similar to those in the Spring Creek plan."

Spring Creek is one of the most productive trout streams in the Eastern United States, even luring U.S. presidents to its waters. The creek sculpted a dramatic gorge through the center of Nuttany Valley, and harbors communities of rare plants and animals. Although stretches of the waterway are undefined, other sections wind through sprouting residential and commercial development.

Mr. Korostoff led a team that gathered cultural, historical and ecological information on more than 30 miles of Spring Creek. The team combined the inventory with data on land-use patterns and zoning laws for public display on poster-sized maps.

"The poster-sized maps are a visual way to show planners how protecting key sites around the creek benefits the region in terms of cleaner water, greater recreational activities and a higher quality of life," Mr. Korostoff said.

He suggests other fast-growing regions also inventory local resources before they're damaged by growth.

The plan also analyzes the problems associated with swift development and offers site-by-site rec-



Neil Korostoff, associate professor of landscape architecture, led a team that gathered information on Spring Creek in Centre County in an effort to protect it and other waterways.

Photo: Greg Grieco

ommendations. These problems include deforestation, watershed disruption, loss of groundwater and destruction of historic sites.

This detailed effort is meant to stimulate communities to act to preserve open spaces while maintaining growth and viability, Mr. Korostoff said.

"Economic options are important. Developers say that lots with large trees and links to open space are worth up to 20 percent more than sterile sites. Recreational use of clear, cold Spring Creek alone pumps more than \$1.5 million into the local economy. Those recreational activities disappear if the creek is polluted or dried up."

Indeed, the creek is

home to several fish hatcheries, where trout are raised and distributed to streams statewide. This pumps more than \$10 million into the local economy, Mr. Korostoff said.

The plan urges municipalities to work together to establish a protected corridor for Spring Creek, which includes adjacent wetlands and extensive stream-side vegetation.

"The hope is that communities can sustain this high-quality, cold-water, trout fishery," he said. "To do so, you protect stream banks and floodplain by keeping natural vegetation in place. Otherwise the banks erode and the sun bakes them and the creek."

Currently, Mr. Korostoff is visiting land-

use officials in local communities with authority over Spring Creek. His "traveling exhibit" includes a multi-media presentation meant to offset a critical problem—that fast growth can overrun pristine sites while municipalities scramble to produce separate comprehensive plans.

"Land-use decision-making is fragmented nationwide," he said. "Most growing areas lack regional entities to help them make important decisions."

For centuries, most cities formed along bays, lakes and rivers. The waterways were needed for transportation and industrial development. But cars, computers and fiber optics have helped move growth away from large waterways to locations along major highway systems.

This decentralized, 21st-century, information-based society can spread across a landscape anywhere," Mr. Korostoff said. "But this growth causes new environmental damage. It may not be a dam that defiles a pristine stream but wells that dry up groundwater. Concern may not be over marshland filled but farmland paved over."

"The nation's new metro areas are at crossroads. Either address changes from rapid growth, or waste local environmental blessings. We can learn from the mistakes of older cities, which regret their loss of natural areas."

Other team members are Mark Battaglia, professor of landscape architecture, and Tim Johnson and Tom Yahner, both assistant professors of landscape architecture. The team's work was underwritten by a grant from the Clearwater Conservancy.

— Scott Turner

Research



Stress
can
keep
you
awake

Having trouble falling asleep? Feeling stressed? No wonder. A recent study shows that people who have chronic insomnia also have higher levels of stress.

Dr. Alexandros Vgontzas, assistant professor of psychiatry at The Hershey Medical Center, along with colleagues there and at the National Institute of Child Health and Human Development in Bethesda, Md., found that those with chronic insomnia had higher levels of cortisol, which is secreted when the body is under stress.

In the study, Dr. Vgontzas and his team followed nine insomniacs who were not taking any medication and who did not have any major psychopathology. For three consecutive nights, the subjects were recorded in the Hershey sleep laboratory where 24-hour urine samples and morning and evening blood samples of stress hormones such as cortisol and catecholamines (norepinephrine, for example) were taken.

The researchers found that in patients with chronic insomnia, higher levels of cortisol and catecholamines are associated with poorer sleep.

Garlic capsules lower cholesterol levels in men

Dietorized garlic capsules slightly lowered high levels of cholesterol in men, according to a University study.

The study shows that blood cholesterol levels of men taking garlic capsules dropped 7 percent over five months, but remained unchanged in men taking placebos. Further, the level of "bad" cholesterol in the blood of the garlic group was about 12 percent lower than that of the placebo group after five months. Both sets of men had the same levels of "bad" cholesterol when the study began.

"I don't want people to think they can enjoy fatty foods and then use garlic capsules to lower their cholesterol levels," Yu-Yan Yeh, professor of nutrition and study leader, said. "It's clear that garlic supplements alone would not be sufficient to reduce cholesterol in the blood to a desirable level."

ATHLETICS

A regular column provided by Intercollegiate Athletics

New assistant basketball coach

Frank Haith, whose coaching resume includes stops at Texas A&M, North Carolina-Wilmington and Wake Forest, has been named assistant men's basketball coach. He fills the vacancy created when Jerry Dunn was appointed head coach following Bruce Parkhill's resignation.

A native of Queens, N.Y., Coach Haith is fresh from three years with the Aggies where he helped head coach Tony Barone revitalize the A&M basketball program, posting a 19-11 mark last fall, finishing second in the Southwest Conference and earning the school's first postseason tournament appearance in seven years (in the National Invitation Tournament).

Coach Portland named to selection committee

Penn State Lady Lion basketball coach Rene Portland has been appointed to serve as a representative on the USA Basketball women's player selection committee by the National Collegiate Athletic Association.

World University Games

Coach Mark Pavlik, Ed Josefowski and Kevin Hourican were members of the USA Volleyball team that competed in the World University Games, Aug. 23-Sept. 3, in Fukuoka, Japan.

FOR THE RECORD

A public lecture by photographer Wayne Miller is scheduled for 7:30 p.m. Thursday, Oct. 19, in the Palmer Lipcon Auditorium of the Palmer Museum of Art on the University Park Campus.

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Art imitates landscape

Erin Furnsby, an art major in visual arts instructor Helen O'Leary's Art 250 class, works on a landscape painting along Park Avenue on the University Park Campus. She and other students in the beginning oil painting class, which meets Monday and Wednesday from 8 to 11 a.m., have been able to paint outdoors recently because of an extended streak of good weather.

Photo: Greg Grieco

Hershey Medical Center opens ALS clinic

The Milton S. Hershey Medical Center has opened a clinic specializing in the treatment of amyotrophic lateral sclerosis (ALS) and related disorders.

ALS, more commonly known as Lou Gehrig's disease, is a motor neuron disease characterized by progressive weakening and wasting of the muscles of the limbs, trunk and face. Also affected are muscles that control such functions as speaking, swallowing, chewing and breathing.

Although most common in mid-life, ALS can develop in adults at any age. Five percent to 10 percent of ALS cases are familial. Its cause is

unknown, and there is no cure. However, research is on an accelerated pace to find the answers to this disease.

"The purpose of the ALS Clinic is to enable the patient to maintain a maximum level of neurological functioning in a supportive and understanding environment," Dr. Zachary Simmons, assistant professor of medicine and director of the new clinic, said.

Clinic staff consists of representatives from neurology, nursing, speech pathology, physical therapy, occupational therapy, social work and nutrition. Patients generally remain under

the primary care of their own physicians while using the clinic's specialized services.

The ALS Clinic at the medical center has a close working relationship with the Greater Philadelphia Chapter of the ALS Association, which is sponsoring a conference, "Managing ALS," on Friday, Oct. 20, in the Wildwood Conference Center at Harrisburg Area Community College to mark the official opening of the clinic.

For more information about services offered through the clinic, call the neurology division at The Hershey Medical Center at (717) 531-8692.

PENNSTATE INTERCOM

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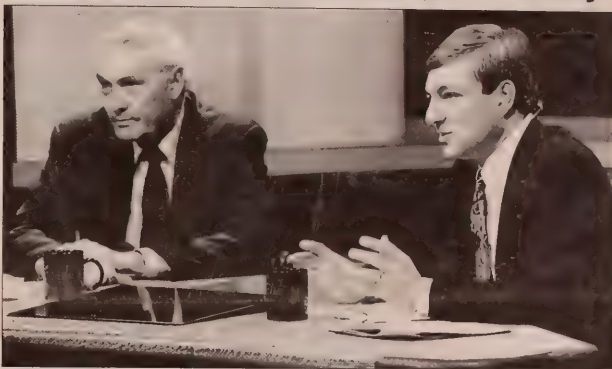
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News of self-study spells opportunity for many

The news delivered last week that campuses will undergo a yearlong study of their missions that will result in changes to the Penn State system was met with hope by some, questions by others and enthusiasm by still more.

In a move aimed at helping the University better serve its communities, all of the 18 campuses within the Commonwealth Educational System were given a list of three to four options from which to choose the one they believe is the most practical. (See page 5). Each campus, along with Penn State Erie, The Behrend College and Penn State Harrisburg, is being asked to intensely scrutinize its current mission and determine its future direction based on demographic data, enrollment trends, regional needs and feasibility.

The plan and options, announced Oct. 19 by President **Graham B. Spanier** and **Robert E. Dunham**, senior vice president and dean of CES, were given to campuses and are expected to spark immediate broad discussions on campus and within the



A new direction

Robert E. Dunham (left), senior vice president and dean of CES, and President Graham B. Spanier answer questions about the yearlong self-evaluation process during a live telecast on Oct. 19 to all CES locations from the studios of WPSX-TV.

Photo: Greg Grieco

See "Opportunity" on page 4

Penn State and Iowa form Big Ten educational partnership

Penn State and The University of Iowa have formed a first-of-its-kind educational partnership that will enable students anywhere to earn academic degrees at home.

Penn State and UI recently signed a formal agreement guaranteeing students who have earned an extended-access associate degree in letters, arts and sciences from Penn State admission to the UI's bachelor of liberal studies external degree program. Both undergraduate programs are offered through distance education and pri-

marily involve correspondence (independent study) courses.

Nicknamed "LionHawk," in recognition of the Nittany Lion mascot and the Hawk mascot at The University of Iowa, this is the first formal collaboration between Big Ten universities that gives students with an associate degree from one institution automatic admission into the baccalaureate degree program at another.

Penn State joined the Big Ten in 1990 in a move designed to strengthen

both academic programming and athletic scheduling for members of the conference. Both schools view the LionHawk as an exciting opportunity.

James H. Ryan, vice president and dean for Continuing and Distance Education at Penn State, noted, "Our partnership represents a first step toward establishing new consortial arrangements with other institutions to more widely share the valuable expertise of our faculty members."

Emmett Vaughan, dean of the UI

Division of Continuing Education, said the new agreement will benefit students in Iowa, Pennsylvania and the United States, as well as Americans living abroad.

"This collaborative program enables both The University of Iowa and Penn State to broaden our commitment to non-resident students in our states and elsewhere," he said.

The agreement will allow students anywhere to earn two-year and four-year undergraduate degrees

See "Partners" on page 3

Inside



Senior Class Gift

The graduating class of 1996 has decided on a gift to the University. For details, see page 12.



Research

Astronomers shed light on the birth of quasars and on X-rays found in radio galaxies. For details, please see page 14.

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DIVERSITY

\$1 million grant enables 4-H program to expand

More Philadelphia inner-city youngsters will have an opportunity to participate in Penn State Cooperative Extension's 4-H Program — thanks to a \$1 million grant from the U.S. Department of Housing and Urban Development.

Philadelphia is one of four cities to share a \$3.5 million HUD grant for expansion of the 4-H After School Program, which was created to bring the fundamentals of 4-H to young people ages 7 to 13, who live in public housing communities.

Philadelphia, Kansas City and Oakland each will receive \$1 million, while Los Angeles — where the program was established in 1988 as one of the first collaborative programs ever involving 4-H, corporations and communities with inner city and urban school children — will receive \$500,000 to expand its efforts.

William W. Asbury, vice president for student affairs, said the HUD grant will assist Penn State in the continuing development of its urban agenda in Philadelphia.

"This grant also will enable 4-H to expand its impact on the city. Currently, some 12,000 Philadelphia youngsters are involved, making it the largest 4-H program of all 67 Pennsylvania counties. The After School Program will enable 4-H to involve even more children."

The HUD grant is "seed money," given with the stipulation that additional support for the After School Program come from local residents, community groups, the academic community at all levels, state and federal agencies, and the business community.

According to Elmore Hunter, Philadelphia County extension agent and director of community relations, the three-year grant funding will be funneled through the Philadelphia



Philadelphia children hatched and raised chickens this summer through the Penn State Cooperative Extension 4-H Program, the largest in Pennsylvania.

Photo: Scott Johnson

Housing Authority to Penn State Cooperative Extension. Programming will be offered at five public housing development sites from 3:30 to 7:30

p.m. Monday through Friday for 41 weeks in the calendar year, and from 9 a.m. to 5 p.m. for eight weeks in the summer.

The 4-H After School Program focuses on homework and academic tutoring, 4-H "learn by doing" projects, community service, and nutrition and fitness education.

"This is real exciting for our 4-H staff," Mr. Hunter said. "We are very fortunate to be selected for the grant. Bruce Richards led the effort to write the funding proposal on which we've been working very hard. It's gratifying to know that our efforts have finally paid off."

He said the key element in the grant program is the identification of corporate sponsors who, together with Cooperative Extension and Housing Authority staff, will form a vision team. Corporate sponsors in Philadelphia are Mellon Bank, SpectraGuard, a security company, and Appomattox Development Corp., a training and development company.

"The vision team will attempt to bring others to the table to see how they can provide resources for the program," Mr. Hunter said. "We want to make certain that the program survives past its three-year funding life."

Plans call for the appointment of a director to oversee the program and for two people at each site to operate program activities.

"Cooperative Extension has been working with the Philadelphia Housing Authority since 1985 on after-school programming," Mr. Hunter said. "We have done it the traditional way, using a few small grants and the regular 4-H program."

"Now, however, the HUD funding will provide for a concentrated effort to make a change in the lives of young people and their parents. We hope to say that over a three-year period, we have empowered people to improve their lives."

WPSX-TV, University to begin campaign to Act Against Violence

WPSX-TV and the University community are launching the Act Against Violence campaign to inform people about the growing number of organized hate groups in Pennsylvania and how to deal with them.

According to a report from the Pennsylvania State Human Relations Commission, from 1991 to 1994, there were 64 white supremacists groups active in 85 different communities in 33 of the state's counties. The armed Aryan Nation compound near Allentown just recently held a gathering.

"Pennsylvania is the linchpin of the organized white supremacists here on the East Coast," Floyd Cochran of Allentown, a former national recruiter for the Aryan Nation, said. Organized hate groups are actively recruiting youth on campuses and in area high schools.

WPSX-TV Act Against Violence campaign will focus on setting the stage for changing violent behavior in area communities. This includes a live community call-in show at 8 p.m. on Nov. 8; a Take Note series which runs through Oct. 27; a resource display project coordinated with area libraries and bookstores; and classroom activities to teach students how to maintain peace in school and at home.

The televised call-in "Act Against Violence; Respond to Hate Groups" will be simulcast on WPSX-TV and WPSU-FM (91.5, 106.7 or 90.1 on the dial), from 8 to 9:30 p.m. on Nov. 8. Guests will include Mr. Cochran and Ann Van Dyke of the Pennsylvania Human Relations Commission.

To receive Act Against Violence print materials, posters or pamphlets, or to sponsor a resource exhibit, call (814) 865-3333.

Black/Jewish relations is topic of panel discussion

The Forum on Black Affairs will present a "Dialogue on Black/Jewish Relations," 5:30 p.m. Wednesday, Nov. 1, at the Paul Robeson Cultural Center on the University Park Campus. The panel will feature Daniel Walden, professor of American studies, and Charles Dumas, actor/director and visiting assistant professor in the Department of Theatre Arts.

A short film directed by Mr. Dumas on Black/Jewish relations as seen through the eyes of a character played by Al Lewis (formerly "Grandpa" on "The Munsters" television show), will be shown before the panel discussion.

Mr. Dumas is also directing "God's Trombones," James Weldon Johnson's classic play based on African American traditional religious preaching. The play will be shown at 5 p.m. Sunday, Nov. 5, at the Paul Robeson Cultural Center.

For information on the movie and the play, call Charles Dumas at (814) 863-9413. Call Ossie Parker at (814) 865-3652 for information on the forum.

Executive Programs in *Business Week's* top 20

The Penn State Executive Programs is among the world's largest providers of educational programs for practicing business people, according to *Business Week* magazine.

In its Oct. 23 edition, the publication further said The Smel College of Business Administration organization was one of only five U.S. public executive education providers to make this international list.

Business Week also said The Smel College of Business among the top 10 providers of programming specifically customized to meet the needs of client

corporations, a market segment into which Executive Programs has moved aggressively. And, in an accompanying listing, the magazine noted that the college was now one of a handful of institutions preparing to offer executive education by satellite.

Business Week's unranked top 20 list was determined by a poll of business school deans and executive programs directors. The only other public schools making the list were UCLA and the universities of Michigan, Wisconsin and Virginia.

Rounding out the top 20 were nine

private U.S. business schools—including Columbia, the birthplace of executive education, three organizations from the United Kingdom and two from Europe.

Founded in 1956, the Penn State Executive Programs last year worked with more than 750 executives from 42 nations around the globe. Executive Programs offers 20 general and functional management programs targeted to upper-middle and senior executives.

Executive Programs has also created a number of alliances with major

corporations to design and deliver customized programs to meet specific organizational needs. These programs range from two-day programs focusing on a specific area to full, strategic management programs designed to change the way a company does business.

Recent top customers of the Penn State Executive Programs are AT&T, Petroleos de Venezuela, a major South American oil firm, ARAMARK, a \$5 billion managed service provider, Daimler Benz, Conrail, Carpenter Technology, a U.S. specialty steelmaker, and General Motors.

Nominations sought for Mitchell Award

Nominations for the 1996 Philip Mitchell Alumni Service Award are being sought.

Deadline for nominations for this honor, given to an alumnus, alumna or friend of the University who has contributed generously to the enhancement, growth, development and improvement of Penn State, is Nov. 30.

The award, approved by the Board of Trustees in 1980, consists of a specially designed certificate and a cash gift to the University for a purpose designated by the recipient.

A plaque in the Alumni Lounge also will display the name of this year's recipient.

No current trustees or distinguished alumni of the University are eligible for the award.

Nominations should be sent to Lyn Culver, The Recognition Program, Penn State Alumni Association, 105 Old Main, University Park, Pa. 16802. For a nomination form or more information, contact Ms. Culver at (814) 865-6517.

Human Resources seeks nominations for 1995 faculty/staff achievement awards

Nominations for the 1995 faculty/staff achievement awards are being sought from the University and local community. Nominators should contact the Office of Human Resources at (814) 863-4315 to request a copy of a standardized format for submitting nominations. Nominations should be sent to Billie S. Willits, Box 6, Rider Building, University Park, Pa. 16802, no later than Friday, Jan. 13. Supporting information, which companies nominations, should be as brief as possible.

The McKay Donkin Award was established in 1969 in honor of the late McKay Donkin who served as vice president for finance and treasurer of the University from 1957 to 1968. The award, which consists of a \$500 stipend, is presented to the full-time faculty or staff, or retiree who has contributed most to the "economic, physical, mental or social welfare of the faculty" of the University. The contributions of the nominee should be for duties or services which are above and beyond regularly assigned duties.

The Administrative Excellence Award carries a stipend of \$500. The award is made to a member of the staff whose performance, methods and achievements exemplify administrative excellence. Important criteria considered in the evaluation of nominees

include total experience in an administrative position, accumulative levels of responsibility and authority, years of service at the University and in present position, and impact on the organization and the University in general.

The Staff Excellence Award, established in 1993, carries a stipend of \$500. The award is made annually to a member of the staff who has demonstrated and practiced the philosophy of continuous quality improvement, team spirit, managerial excellence and provided leadership in establishing a quality service orientation in the performance of assigned duties. To be eligible for the award, full-time staff must have at least five years of University service.

The Barash Award for Human Service was created in 1975 by the family of the late Sy Barash. It is an annual award to a full-time member of the faculty, staff or student body at University Park who has contributed most, apart from regular duties, to human causes, public service activities and organizations, or the welfare of fellow humans. These human service activities must have been performed at University Park or in the Borough of State College, College, Patton, Harris or Ferguson townships. The award carries a stipend of \$1,000.

The Equal Opportunity Award is

designed to recognize a University faculty or staff member who promotes the concept of equal opportunity through affirmative action and/or contributes to enhancing the educational environment of the University through improving cross-cultural understanding. To be eligible for this award, full-time faculty and staff must have at least two years of active University service.

The award, consisting of a \$1,500 stipend, is given in recognition of meeting one or more of the following criteria: demonstrated commitment to the spirit of equal opportunity through affirmative action; demonstrated leadership in the elimination of discrimination through encouragement of understanding between people of different races, sexes, age groups, sexual orientation, ethnicity or religious heritage; demonstrated commitment to meeting the special needs of students, faculty or staff who are members of traditionally underrepresented groups.

Dr. Willits, assistant vice president for Human Resources, is chairing a general committee to solicit nominations for these five 1996 faculty/staff achievement awards. Five subcommittees will screen nominations and develop recommendations for the respective awards. Early submission of nomination forms is encouraged.

Partnership

continued from page 1

without leaving home or giving up family, job or community obligations.

The independent study course format allows students to study at their own pace and in a location of their choice. Course materials involve a combination of printed and multimedia resources. In addition, both universities provide educational advising services to students.

Penn State has offered the extended-access associate degree in

letters, arts and sciences (ELAS) since 1976. The degree, which requires the completion of 60 credits, is conferred by the College of the Liberal Arts and administered through the Department of Distance Education's Independent Learning Program.

The University of Iowa has offered the bachelor of liberal studies (BLS) degree since 1977. It is conferred by the College of Liberal Arts and administered through the Divi-

sion of Continuing Education. The BLS is open to students who have earned an associate degree in the liberal arts or who have completed 62 credits and maintained the required grade point average.

There are more than 650 students enrolled in the external degree programs at both universities.

For more information about the Lionhawk program, contact the Penn State Advising Center, Independent Learning, Department of Distance

Education, Penn State, 207 Mitchell Building, University Park, Pa. 16802-3693; phone: (814) 865-5403 or (800) 252-3599; fax: (814) 865-3290; E-mail: pssde@edu.psu.edu.

Or, contact The University of Iowa: Elizabeth Hill, Center for Credit Programs, Division of Continuing Education, The University of Iowa, 116 International Center, Iowa City, Iowa 52242-1802; phone: (319) 335-2575 or (800) 272-6430; fax: (319) 335-2740; E-mail: credit-programs@uiowa.edu.

Opportunity

continued from page 1

community on the future direction each campus will take. The concept of "one University geographically distributed" is a guiding principle of the process that should result in tentative mission recommendations from the campuses as early as January.

"The bottom line is that this exercise is not about cutting the budget back or eliminating jobs," Dr. Spanier told reporters during a press conference. "It's about getting Penn State organized in a fashion so we are delivering the right kinds of educational services, to the right people, at the right places, at the right time."

In fact, the president indicated that if Penn State is successful in pinning down the missions of its campuses to fit the needs of local communities, growth could be the result.

Dr. Spanier said that in reviewing missions and possible options, campus discussions should begin

"The bottom line is that this exercise is not about cutting the budget back or eliminating jobs. It's about getting Penn State organized in a fashion so we are delivering the right kinds of educational services, to the right people, at the right places, at the right time."

— President Graham B. Spanier

with academics, but will also have to focus on financial ramifications of what may be proposed.

Earlier in the day, the president and Dr. Dunham held a 45-minute interactive live telecast from WPX-TV studios that was beamed via satellite to all CES locations, Penn State Erie, University Park and Penn State Harrisburg. The telecast allowed members of the campus communities to call in and ask questions about the self-evaluation plan.

Concerns about funding availability for new programs or ventures and questions about the leapway campuses would be given to begin or expand academic programs dominated the discussion.

"We are going to have very little, if any, discretionary funding within the University budget to invest in new programs, so we must be realistic in planning. Recommendations must be based on solid data," Dr. Spanier said. "Reallocation through good use of incremental funding that comes from tuition, philanthropy or from other areas is what we'll be working with. I'm hoping there might be some ways to accomplish efficiencies of scale."

Dr. Dunham said regional collaboration, one of the options proposed for many of the campuses, would conserve resources that are now "splintered off to various campuses."

"In some instances, investment of resources would be a wise choice. We are not opposed to doing a bit of risk taking... but it must be prudent risk taking. This means that before we embark on anything we must very, very carefully analyze it.

We're willing to make an investment if we're sure we can recoup that investment and if we do not put other elements in the University budget at risk," Dr. Spanier said.

For some campuses, part of the risk could involve becoming a four-year institution. To do this, many of the restrictions now in place from academic colleges or units would have to be removed or loosened to allow baccalaureate-level programming. Dr. Spanier said academic units will have to become more flexible.

"Flexibility is what we're trying to achieve," he said. "It means working very creatively with colleges here to allow for that greater degree of flexibility in programming. I don't see any way some campuses can meet the needs of their regions unless we provide for more of those opportunities."

The president also said early discussions on the topic with deans, academic department heads, faculty and others have taken place and "they are standing behind our efforts to make this process work."

One campus with an option for becoming a four-year institution is the Penn State Altoona Campus. Allen Meadors, campus CEO, said there is a lot of "excitement in the community over such a possibility."

"This whole process is an excellent opportunity to review how we can best serve Penn State and the region," Dr. Meadors said.

Lawrence S. Cote, CEO of Penn State Great Valley, agreed and said he is looking forward to exploring the alternatives provided to his campus, which include becoming part of a multi-campus/college with the Penn State Abington-Ogontz and Delaware County campuses or collaborating with the Allentown Campus to form a multi-campus graduate center.

"This process is long overdue. The system has grown well beyond its original conception and it's something that, for Great Valley, is very timely as we look to expand," he said. "As the odd unit in the campus system—a graduate center—this presents an interesting opportunity for us to collaborate more heavily with other campuses."

Great Valley already collaborates with Penn State York, Berks and Allentown campuses on various educational offerings.

As provost of one of the few colleges in the Penn State system, Penn State Harrisburg's John Bruhn believes the process will allow his college to assume a "greater and more visible presence in south central Pennsylvania."

"We look forward to working with our sister campuses in York and Schuylkill, in particular, in exploring ways to offer programs that meet the needs of students."

Catherine Gannon, CEO of the Penn State New Kensington Campus, said that although some people may enter the self-evaluation process with trepidation, it should help some campuses address issues that have been bubbling under the surface.

"As a new CEO, I personally welcome change and look forward to developing a new future and forging a new direction," she said. "I think this is an excellent opportunity to do some real strategic planning based on validated information and coming up with a clear cut vision for the future."

Also new to CES, Dennis Travis, CEO of the Penn State Beaver Campus who came on board in July, said his campus has already held two town

meetings to discuss the future. As part of the process, the Beaver Campus has outlined a comprehensive review procedure that taps into the community through local leaders, K-12 representatives, guidance counselors, school superintendents, advisory board members, faculty, staff and students.

"I have already met with the president of Geneva College and will meet shortly with the president of the community college," Dr. Travis said. "I have had discussions with the CEOs of the other Penn State campuses in this region. This is just the beginning of what I see as a beneficial collaboration."

The full text of the plan can be found on the home page of the Office of University Relations on the World Wide Web at URL <http://www.pubinfo.psu.edu>. For anyone wishing to ask questions or make comments on the plan, an E-mail option is also available at this site.



Statewide tour heads to Delaware County Campus

President Graham B. Spanier's statewide tour, aimed at reaching out to the people Penn State serves, will continue Thursday, Nov. 2, at the Delaware County Campus. Dr. Spanier recently returned from his Wednesday (Oct. 25) stop at Penn State Erie, The Behrend College.

Dr. Spanier began the tour Sept. 20 as a vehicle for listening to constituents in the communities where Penn State is located. A large part of the newly initiated self-study plan for CES will involve community meetings and interactions with local leaders.

FAST FACTS ABOUT DELAWARE COUNTY CAMPUS

Founded: 1967

Service area: Delaware and Chester counties, south and west Philadelphia

Provost: Edward S.J. Tomezko

Employees: 170 (includes both full- and part-time employees)

Key programs: Well known for its bachelor of science degree program in urban early and middle childhood education. Also offers bachelor of arts degrees in speech communication, general arts and sciences and American studies. In addition, offers an associate's degree in business administration.

Options for the campuses

Each of the 18 campuses in the Commonwealth Educational System have been given a set of options from which they will select one — the one they believe will allow them to serve the needs of the local region in a way unique to Penn State. Although this self-study process also involves Penn State Erie, The Behrend College and Penn State Harrisburg, there are no specific options enumerated for those colleges. The options for each campus follow:

Abington-Ogontz

- present mission with an alteration
- multi-campus college with Delaware and Great Valley
- upper division campus aligned with Bucks County Community College and Montgomery County Community College
- Four-year college

Allentown

- graduate center with Great Valley
- outreach center
- part of multi-campus/college with Berks
- present mission

Altoona

- present mission with an alteration
- community college
- four-year college

Beaver

- part of multi-campus/college with McKeesport, New Kensington and Fayette
- present mission with alteration
- graduate center of Greater Pittsburgh
- upper division campus aligned with Beaver County Community College

Berks

- present mission with an alteration
- Four-year college
- part of a multi-campus/college with Allentown and Schuylkill
- a campus of Penn State Harrisburg

Delaware

- present mission
- part of a multi-campus/college with Abington-Ogontz and Great Valley
- a campus of the College of the Liberal Arts
- upper division campus

DuBois

- present mission with an alteration
- part of Penn State Erie, The Behrend College
- outreach center

Fayette

- present mission with an alteration
- community college
- part of a multi-campus/college with McKeesport, New Kensington and Beaver

Great Valley

- present mission
- part of a multi-campus/college with Abington-Ogontz and Delaware County
- part of a multi-campus graduate center with Allentown

Hazleton

- present mission with an alteration
- part of a multi-campus/college with Worthington Scranton and Wilkes-Barre or Schuylkill
- four-year college

McKeesport

- present mission with an alteration
- upper division campus aligned with Allegheny County Community College
- part of a multi-campus/college with Fayette, New Kensington and Beaver
- graduate center of Greater Pittsburgh

Mont Alto

- present mission with an alteration
- part of a multi-campus/college with York and Harrisburg
- community college

New Kensington

- present mission with an alteration
- part of a multi-campus/college with Beaver, McKeesport and Fayette
- graduate center of Greater Pittsburgh

Schuylkill

- present mission
- part of Penn State Harrisburg
- part of a multi-campus/college with Hazleton and Berks
- community college

Shenango

- present mission with an alteration
- part of Penn State Erie
- outreach center

Wilkes-Barre

- present mission
- part of a multi-campus/college with Worthington Scranton and Hazleton
- outreach center
- a campus of Penn College

Worthington Scranton

- present mission with an alteration
- part of a multi-campus/college with Wilkes-Barre and Hazleton
- outreach center

York

- part of Penn State Harrisburg
- present mission with an alteration
- part of a multi-campus/college with Mont Alto

LECTURES

Adult learners are focus of conference

"Responding to Our Adult Learners" is the topic of this year's Division of Undergraduate Studies fall advising conference to be held from 1 p.m. Monday, Oct. 30 to noon Tuesday, Oct. 31, at the Nittany Lion Inn, Colonial Room 1, on the University Park Campus. University faculty and staff are invited to attend.

Several events will be of special interest to the University community. On Monday, Oct. 30 from 1:15-2:15 p.m. a panel of adult learners will speak about their motivation for beginning or returning to college and their subsequent experiences at Penn State; "Adults as Learners" will be discussed by **Fred Schied**, assistant professor of education, from 3 to 4 p.m.; and "Adult Education (ADTEDE) 100, Revisiting Adult Learners in the University" will be presented by **Kim Townsend**, instructor, continuing and distance education, from 4 to 5 p.m.

On Tuesday, Oct. 31, "The Status of the Task Force Report on Adult Student Life and Learning" will be discussed by **Shirley Hendrick**, associate dean for continuing and distance edu-

cation, The Smeal College of Business Administration, and **Eric White**, director, Division of Undergraduate Studies, from 8:30 to 9 a.m.

"Orienting Adult Students to the University Campus" will be presented by **Kevin Leddy**, 2-LAS coordinator, College of the Liberal Arts; **Joann Shaffer**, senior DUS programs coordinator, Altoona Campus, from 9 to 10 a.m.

"Great Leaps Forward in Advising Adult Learners" will be discussed by **Mary Adams**, assistant director of Undergraduate Admissions; **Shelly Aina**, coordinator of Veterans Outreach; **Beryl Gibson**, manager re-enrollment, Office of the University Registrar; **Ruth Hussey**, senior undergraduate studies adviser; **Ro Nwraniki**, student aid/admissions adviser; and **Diane Resides**, counselor, Center for Adult Learner Services, from 10:30 to 11:45 a.m.

For more information, contact **Eric White** (814) 865-7576, ERW2@OAS.PSU.EDU, or **Charlene Harrison**, director, Center for Adult Learner Services (814) 863-3887, CHH1@OAS.PSU.EDU.

Lecture to examine role of girls and women in sports

Maureen R. Weiss, professor of exercise and movement science at the University of Oregon, will give the first Dorothy V. Harris Lecture in Sport Psychology, Thursday, Nov. 2, at 4:15 p.m. in 101 Kern Building. A reception will follow the lecture.

The lecture series, sponsored by the Department of Exercise and Sport Science in the College of Health and Human Development, is named for Dorothy Harris, a former faculty member and pioneer in sport psychology. Dr. Harris died in 1991, bequeathing \$30,000 to endow a lecture series by eminent teachers and researchers in her field.

Dr. Weiss will speak on "The 'Heldi' Chronicles' of Girls and Women in Sport: A Tribute to Dorothy V. Harris."

Dr. Weiss has been a faculty member at Oregon for 14 years. Her research focuses on the role of sport

and physical activity in the psychological and social development of children and adolescents. She is especially interested in self-perceptions, motivation, observational issues, peer relationships, coaching influences and moral development.

She has published more than 60 articles in journals and has co-edited two books: *Sport for Children and Youths* and *Advances in Pediatric Sport Sciences*, Vol. 2: *Behavioral Issues*. She is editor of the journal *Research Quarterly for Exercise and Sport*, and was guest editor for a special issue of the journal *Pediatric Exercise Science* focusing on social/psychological factors influencing children's physical activity.

In addition, she is director of the Children's Summer Sports Program at the University of Oregon, a program that helps develop sport skills in children ages 5 to 13.



AT&T talk

Robert E. Allen, chairman and CEO, AT&T, delivered the James R. and Barbara R. Palmer Chair Lecture in Telecommunications Studies on Oct. 19 at the University Park Campus. For the text of his speech, visit the Office of University Relations home page on the Web at URL: <http://www.pubinfo.oud.psu.edu/>

Photo: Greg Grieco

Carl Sagan set to speak Nov. 6 for Colloquy event

Carl Sagan, who has played a leading role in the American space program since its inception, will speak at 8 p.m. Monday, Nov. 6, in Eisenhower Auditorium on the University Park Campus. The event, part of the 1995-96 Colloquy Speaker Series, is free to the public, but tickets are required for admittance.

Dr. Sagan has been a consultant to NASA since the 1950s, briefed the Apollo astronauts before their flights to the moon, and was an experimenter on the Mariner, Viking, Voyager and Galileo expeditions to the planets. He has received the Pulitzer Prize, the Oersted Medal and many other awards — including 18 honorary degrees from American colleges and universities — for his contributions to science, literature, education, peace and preservation of the environment.

Dr. Sagan's book, *Cosmos*, spent 70 weeks on the *New York Times* bestseller list and became the best-selling science book ever published in the English language. His most recent book is *Shadows of Forgotten Ancestors: A Search for Who We Are, with Ann Druyan*.

For information on obtaining tickets to the talk, contact Colloquy at (814) 865-9382.

Lecture reviews deep sea findings

John R. Hale, University of Louisville, will discuss "Identifying the Riace Warriors: The Discovery of Two Naval Heroes from the Golden Age of Greece" at 8 p.m. Monday, Nov. 6, in 101 Kern Building on the University Park Campus.

Dr. Hale, who specializes in nautical archaeology, holds a doctorate from Cambridge University and has done research at Greek, Roman and Scandinavian sites.

He also has published a num-

ber of articles on ancient shipbuilding and seafaring, and will discuss the 1972 discovery by a fisherman of two bronze statues on the ocean floor off the coast of Riace, Italy.

The talk is sponsored by the Central Pennsylvania Society of the Archaeological Institute of America, with additional support from the Institute for the Arts and Humanistic Studies and the colleges of the Liberal Arts and Arts and Architecture.

WISE engineering talk set for Nov. 9

Anita Jones, director of Defense Research and Engineering for the U.S. Department of Defense, will speak at 7 p.m. Thursday, Nov. 9, in Ballroom C of the Nittany Lion Inn on the University Park Campus.

Dr. Jones, who oversees the DoD's science and technology programs, will discuss "Engineering in the Fast Lane" as part of the Women in the Sciences and Engineering Lecture Series.

Dr. Jones has been a researcher in the area of computer software systems and has published two books and more than 35 articles.

Before being appointed to her current position, she was chair of the Computer Science Department at the University of Virginia.

This lecture is open to the public. A reception will follow from 8 to 9 p.m. in Atrium & Ballroom B at the Inn.

More Lectures

Oklahoma City official to review disaster planning

Maj. Garold L. Spencer, commander of the Oklahoma City Police Emergency Response Team, will be the keynote speaker at a conference, "When Catastrophe Strikes: The Oklahoma City Story," on Saturday, Nov. 4 which will begin with registration at 8 a.m. at The Penn State Scanticon.

Maj. Spencer will discuss the magnitude of the event, what disaster plans were already in place, what worked and what didn't work for the disaster teams and how others can prepare for the unexpected. The program is a continuing and distance education service of the College of the Liberal Arts.

Maj. Spencer was at the center of the disaster response minutes after the explosion and through the weeks that

followed. Participants will learn about the roles played by police, fire and rescue workers, emergency medical personnel, social service groups, volunteers and others in responding to this crisis. This one-day program is designed to help participants identify the important elements in disaster preparedness that contribute to successful management of an actual event; examine the response of police, fire, rescue, medical and other personnel in Oklahoma City and apply the lessons learned to disaster planning in their own fields of work.

The \$57 registration fee covers registration, lunch and refreshment breaks. To register by phone or for more information, call (800) PSU-TODAY.

"Fanciful Folklore" the theme of McKeesport Liberal Arts Fair

An evening of myths, tales of folk heroes and how things originated will weave the "Fanciful Folklore" theme of the Penn State McKeesport Campus seventh annual Liberal Arts Fair tonight at 7 in the Frable Conference Center. The event is open to the public.

Experts in several areas of contemporary and ethnic cultures will reveal many little known facts and fiction about Urban, Slovenian, Serbian and Pittsburgh folklore.

Bill Ellis, associate professor of English/American studies at the Penn State Hazleton Campus, will talk about urban legends. His special field is folklore, and he is best known for this work on urban

legends. Dr. Ellis has taught at the Penn State Hazleton Campus since 1984.

Terry Steff weaves tales of Slovenian folklore through puppets dressed in ethnic costumes. Mr. Steff is executive director of the Slovenian Heritage Association.

The Rev. Stevan Rocknake is pastor of the St. Sava Serbian Orthodox Church of McKeesport-Duquesne. He holds an M.S. in education and counseling from the University of Dayton, and earned a master's of divinity from St. Vladimir's Orthodox Theological Seminary in New York. The Rev. Rocknake has served as adjunct professor of sociology at the Penn State Beaver Campus.

Penn Staters

Syed Saad Andaleeb, associate professor of marketing at Penn State Erie, The Behrend College, traveled to Dhaka, Bangladesh, to complete his project on the agents responsible for delivery of primary education in that country. The project was funded by the American Institute of Bangladesh Studies.

Augustin Banyaga, professor of mathematics, gave an invited planetary lecture titled "Hypercontact Geometry and Gauge Theory" at the 4th Pan-African Congress of Mathematicians, held in Ifrane, Morocco.

Gary L. Catchen, associate professor of nuclear engineering, presented a seminar titled "Probe-Surface Interactions on GaAs (111)B Surfaces Measured Using Perturbed-Angular-Correlation Spectroscopy," at Universität des Saarlandes in Saarbrücken, Germany. He also presented "Characterizing Phase Transitions in the Teroskites LaMnO₃, PbTiO₃, and BaTiO₃ Using Perturbed-Angular-Correlation (PAC) Spectroscopy" at Fakultät für Physik, Universität Konstanz, Germany, and participated in the 10th International Conference on Hyperfine Interactions, held in Leuven Belgium, where he pre-

Harrisburg lectures discuss "Current Issues in Business"

As part of the continuing Harrisburg series "Current Issues in Business" two noon time talks are scheduled for November. These 1995 Downtown Harrisburg Lectures are sponsored by Penn State Harrisburg's School of Business Administration.

Jean Harris, assistant professor of professional accountancy at Penn State Harrisburg and a certified public accountant, will discuss "Cutting-Edge Tax Cut Issues: Fiscal Combat," from noon to 1 p.m. Wednesday, Nov. 8, at the Eastgate Center.

The lecture, which will draw on a recent study of six states in fiscal crises, will focus on different strate-

gies pursued to cope with these financial problems.

On Nov. 21, from noon-1 p.m., Neal Ashkanasy, senior lecturer in the Graduate School of Management, Queensland University in Australia, will discuss "Ethical Decision Making: Organizational Culture and Auditor Independence."

In this lecture, research findings will be presented from two studies of Big 6 accounting firms in Australia. Three decision-making styles will be identified and influences on organizational culture will be discussed.

For more information about the series or to register for a lecture, contact the Eastgate Center at (717) 772-3590.

Communication is subject of discourse

"Building an Open Community: How Can We Communicate Better?" is the topic of a Nov. 15 discussion from 4:30 p.m. in the Alumni Lounge, Old Main, on the University Park Campus.

The discussion is part of the 1995-96 series of Conversations on Teaching and Learning, designed to encourage further exploration of these principles and foster discussion on how to make Penn State a true community of learning.

The series, sponsored by the

Instructional Development Program and the USG Senate/Academic Assembly, will continue in the spring with "Building a Just Community," "Building a Disciplined Community," and "Building a Caring and Celebrative Community;" dates and times will be announced in future issues of the *Intercom*.

To register to attend any discussion in the series, contact the IDP at (814) 863-2599. All members of the University community may attend.

Speech focuses on obesity in elderly

Caroline Apovian, assistant physician in the Department of Gastroenterology and Nutrition at Geisinger Medical Center, will speak on "Obesity in the Elderly -- Effects on Physical Function and Quality of

Life" at 4 p.m. Tuesday, Oct. 31, in S-209 Henderson Building South on the University Park Campus. The lecture is the Graduate Program in Nutrition Colloquium Seminar for fall 1995.

Henry Gerhold, professor of forest genetics, has been named a recipient of the 1995 National Arbor Day Book Award for *Street Tree Factsheets*, which he co-edited.

W. Larry Kenney, professor of applied physiology, has been elected to a three-year term on the board of trustees of the American College of Sports Medicine (ACSM), an organization of more than 16,000 sports medicine physicians, researchers and educators.

Sridhar Komarneni, professor of clay mineralogy in the Department of Agronomy and Materials Research Laboratory, presented a paper titled "Novel Microwave - Hydrothermal Processing for Inorganic Synthesis" at the 2nd International Conference on Material Chemistry in Canterbury, UK. He presented two invited lectures in Paris, one at Université Pierre et Marie Curie on "Sol-gel and Other Nanocomposites" and another on "Novel Microwave-Hydrothermal Processing for Ceramic Powers" at Rhone-Poulenc.

sented an invited seminar titled "Hyperfine Interactions of ¹¹¹In->¹¹¹Cd Probe Atoms on GaAs (111)B Reconstructed Surfaces."

"The Garden," a film written and directed by Charles Dumas, visiting professor in the College of Arts and Architecture Department of Theatre Arts, has been chosen for exhibition at the Second Annual Metroland International Short Film Festival.

The 28-minute film is about a Holocaust survivor who has a garden next to an African-American history professor.

The film stars Al Lewis (grandpa on the TV series, "The Munsters"), Patrick Rameau and Frank Kane.

Sergio Fajardo-Acosta, project associate in astronomy at Penn State Erie, The Behrend College, gave an invited talk, "The Dust in Beta Pictoris Systems," at the International Astronomical Union Colloquium 150, "Physics, Chemistry and Dynamics of Interplanetary Dust."

The Future . . . The Challenge

The next 25 years at The Hershey Medical Center

As University Hospital at The Hershey Medical Center observed its silver anniversary Oct. 14, it was a time for reminiscences and reflections. Now it is time for prognostications and predictions, in what have been called challenging times for our nation's academic health centers.

Academic health centers across the country are gearing up for new challenges in the years ahead.

"We face threats on multiple fronts," Dr. C. McCollister Evarts, senior vice president for health affairs and dean of the College of Medicine, said.

"There's the marketplace m  le of managed care, reductions in federal support for medical education and research, and most recently, the proposed disproportionate

reductions in Medicaid and Medicaid reimbursements. These threats could spell the end of vital programs and services provided only at our nation's academic health centers."

Of the approximately 125 academic health centers in the United States, six are in Pennsylvania; only one is between Pittsburgh and Philadelphia. Academic health centers like The Hershey Medical Center play a special role in the health care delivery system because of their multiple missions of education, research, patient care and community service.

The academic health centers have made a major impact on the economic well-being of the Commonwealth. In the most recently completed financial year, HMC had a total economic impact on the Commonwealth of nearly \$600 million. More than \$75 million of this revenue comes from outside the state.

HMC's economic impact on Pennsylvania's economy stems from seven major areas: HMC's institutional expenditures for capital improvements, goods and services; the spending of HMC employees; spending of independent contractor physicians; spending of medical residents; spending of medical and other health sciences students; the spending of patients (external to the hospital/s); and the spending of visitors.

While HMC is a not-for-profit institution, the Commonwealth still received substantial revenues as a result of both its direct and indirect influence



"We are recruiting the most talented and humane scientists, teachers, health care providers, students and employees in all fields. We have seen a growth in the number of faculty. Our medical school is sought after."

Dr. C. McCollister Evarts
senior vice president for health affairs
and dean of the College of Medicine

on the economy. HMC is a major employer with a payroll that provides more than \$5 million in state income taxes. In addition, the substantial HMC-related spending with Pennsylvania business generates large-scale revenues for the state in the form of sales tax, corporate net income tax and capital stock/franchise taxes.

But just as important as the economic impact is HMC's goal to serve as a hub in the health care system through its four-part mission. Hershey and similar medical centers treat the sickest patients and deliver care to many of the Commonwealth's urban and rural poor.

"We also educate and train the nation's future physicians, scientists and health care practitioners," Dr. Evarts said.

Scientific breakthroughs from Pennsylvania's academic health centers have greatly advanced medical knowledge and improved the health status of citizens. These discoveries include the first implanted electrical motor-driven heart assist device and total artificial heart with a completely sealed internal system, the first effective dead-virus vaccine for polio, and the first artificial tendon for reconstructing damaged hands.

Looking back over the 25-year history of The Hershey Medical Center, distinct eras can be seen beginning with the birth and creation of the institution, followed by a period of consolidation and stabilization. Each era has been led by a dean that "was right for the time," said pediatric Professor Nick Nelson, a 25-year celebrant. "And then came a nine-year period of remarkable growth under the leadership of Mac Evarts."

The future, while unknown, is not uncharted. The medical center is embarking on its next journey — a period of transformation. "Our faculty and staff will lead the medical center into the future and define our role and our mission," Dr. Evarts said.

"We have much to offer. We are recruiting the most talented and humane scientists, teachers, health care providers, students and employees in all fields. We have seen a growth in the number of faculty. Our medical school is sought after."

Indeed, there's been an explosion in the number of applicants. There were 7,285 applicants for the 110 class openings this fall. The class profile is changing. There is a balance between in-state and out-of-state admissions. Forty-seven percent of the medical student body are women; the number of minorities accepted has increased from 20 percent to 33 percent over the last three years. And to meet the needs of the Commonwealth, the number of men and women choosing primary care over a specialty area has increased. In last year's graduating class, nearly 40 percent chose family medicine, pediatrics, internal medicine or obstetrics/gynecology as their specialty.

The medical center has made a commitment to serving Pennsylvania's medically underserved in special initiatives such as the Center for Primary Care and the rural health initiative.

"It is a grave time for academic health centers," Dr. Evarts said. "But Penn State's Hershey Medical Center is working hard to prepare to meet these challenges."

Metal Casting Center to lead foundry sand recycling effort

Penn State's Metal Casting Center has been tapped by the Environmental Protection Agency to lead a national, industry-wide effort to reuse sand and other residuals from foundries in highway construction, cinderling and fill.

The program, directed by Raymond W. Regan, center associate director, and Robert C. Voigt, center director, was designated through a grant from the EPA's Environmental Technology Initiative Program. The effort also is receiving support from Pennsylvania's Ben Franklin program and the Pennsylvania Foundrymen's Association.

"The disposal of residual, non-hazardous wastes is a significant prob-

lem for the foundry industry nationwide," Dr. Voigt said. "In 1991 U.S. foundries spent more than \$480 million to dispose of non-hazardous waste materials, primarily sand, slag and dust. Assuming an average sand disposal cost of \$30 per ton, and a transportation cost of \$10 per ton, reuse of only 50 percent of the total disposed solid wastes represent an annual cost savings to the industry approaching \$133 million."

The model Dr. Regan and his colleagues will use for the industry-wide program is the approach they developed in cooperation with the Pennsylvania Foundrymen's Association. The Penn State/Foundrymen's Association

consortia has a permit application pending for beneficial use of foundry wastes residuals in Pennsylvania. Currently, they are working on identifying applications for the reuse of foundry residuals by the construction industry and providing technical support to address problems.

Dr. Regan said that cooperative pooling of the foundry residuals may be a key component of the program since no single foundry alone generates enough materials for successful reuse in the highway construction industry.

In Pennsylvania, before the passage of strict legislation in 1980, spent foundry sand was routinely used as

construction material for roads, cinderling and fill. The Solid Waste Act of 1980 stopped those practices since used system sand is a "waste product," although primarily a non-hazardous one. The Beneficial Use Act of 1989 revived those reuse options. Other states have passed similar legislation.

The new Penn State effort will focus on addressing institutional barriers found to affect the success of beneficial use in other states having significant numbers of foundries.

Foundries are concentrated in at least 10 states: Ohio, California, Pennsylvania, Michigan, Illinois, Wisconsin, New York, Indiana, Texas and Massachusetts.

Promotions

Staff

Barbara E. Cek, applications systems specialist at The Hershey Medical Center.
Jennifer L. Chernick, staff assistant VI at The Hershey Medical Center.
Vicki A. Condran, administrative assistant II at The Hershey Medical Center.
Jamie A. Corman, staff assistant IV in Eberly College of Science.
Audrey E. Davidson, staff assistant V in Research and Graduate School.
Carolyn S. Deno, staff assistant VIII at The Hershey Medical Center.
Tracy S. DeSoto, staff assistant VI in College of Engineering.
Michael J. Dooris, director of academic assessment in Office of The President.
David A. English, regional director in Commonwealth Educational System.
Robert A. Fantaski, supervisor, Physical Plant Maintenance, in the Office of Physical Plant.
Lisa D. Faust, staff assistant VII in College of Arts and Architecture.
Debra S. Fisher, group manager at The Hershey Medical Center.
Shanda A. Garby, finance and accounting assistant at The Hershey Medical Center.
Gary C. Gentzel, systems programmer, Computer and Information Systems, in Office of Administrative Systems.
Sherry A. Godlevski, staff assistant VII at The Hershey Medical Center.
Daryl L. Hackenberger, group manager at The Hershey Medical Center.
Michael J. Hite, senior systems analyst in the Office of The President.
Brenda R. Hockenberry, staff assistant VI in Research and Graduate School.
Christine M. Horting, staff assistant VII at The Hershey Medical Center.
Leslie E. Hutchins, staff assistant VIII in College of Communications.
Nancy M. Hutchison, group manager at The Hershey Medical Center.
Kelley S. King, senior analyst in Corporate Controller's Office.
Thaddeus Kurpiel, maintenance mechanic B at Penn State Great Valley.
Kathleen E. Landis, staff assistant VI at Penn State York Campus.
Susan C. Lewis, area rep II at Commonwealth Educational System.
Gail A. Long, data administration coordinator at The Hershey Medical Center.
April R. Martell, staff assistant VI in Business Services.
Diane L. Mattern, staff assistant VII in Research and Graduate School.
Joyce M. Matthews, director, CES Marketing and Admissions, in Office of The President.
Kathleen A. McMeans, staff assistant VI at The Hershey Medical Center.
Lori J. Mease, staff assistant VI at The Hershey Medical Center.
Eleanor E. Meyer, staff assistant IV in Intercollegiate Athletics.
Jayne A. Miller, staff assistant VII at Penn State Harrisburg.
Cynthia S. Moslak, staff assistant VI in Student Affairs.
Anne C. Mycek-Memoli, senior systems analyst in Office of The President.
Vicki J. Nice, clinical head nurse at The Hershey Medical Center.
Ida M. O'Donald, staff assistant V in College of Earth and Mineral Sciences.
Todd W. Plummer, operations coordinator II, Computer and Information Systems, in Telecommunications.
Deborah D. Reynolds, staff assistant VI at Nittany Lion Inn.

James E. Richard, manager, Food Services I, in Housing and Food Services.
Julie A. Rizzo, financial services support coordinator, at The Hershey Medical Center.
Jennifer S. Scipioni, area rep at The Hershey Medical Center.
Melissa A. Shue, staff assistant VI at The Hershey Medical Center.
Jodi A. Shaw, staff assistant VI in College of Engineering.
Gwendolyn A. Smith, admissions Counselor I at Penn State Abington-Ogontz Campus.
James W. Stauffer, group manager at The Hershey Medical Center.
Denise R. Steffen, staff assistant VI at The Hershey Medical Center.
Robin L. Stevens, program coordinator in The Small College of Business Administration.
Sandra L. Skillo, staff assistant VII at Penn State Harrisburg.
Patti A. Stimer, staff assistant V in Student Affairs.
Samuel S. Totor, environmental health and safety assistant in University Safety.
Uyen T. Tran, research technologist in College of Health and Human Development.
Suzanne B. Urban, staff assistant VI at The Hershey Medical Center.
Kathy A. Vander Woude, group manager at The Hershey Medical Center.
Faithann J. Van Ness, staff assistant VI in College of Engineering.
Catherine A. Veneziano, assistant ticket manager in Housing and Food Services.
Anthony E. Wagner, director, Legislative Affairs, in Office of The President.
Jill B. Wagner, admissions representative at The Hershey Medical Center.
Cora E. Williams, staff assistant VI at The Hershey Medical Center.
Christine A. Wilson, staff assistant VIII in College of Engineering.
Christina A. Wilson, senior conference planner in Continuing and Distance Education.
Peggy G. Zentler, staff assistant VIII in College of Health and Human Development.

Technical Service
Everett Bennett, maintenance worker general B at Penn State Harrisburg.
Frank M. Ciccarella, maintenance worker, Utility, at Penn State Altoona Campus.
Janice M. Dunn, environmental health worker, group leader, at The Hershey Medical Center.
Randy M. Ewerich, group leader, community services officer, at Penn State Schuylkill Campus.
Robert M. Epler, utility worker at The Hershey Medical Center.
Claudette J. Gagnon, residence hall utility worker in Housing and Food Services.
Albert M. Kustaborder, maintenance worker, general B, in Intercollegiate Athletics.
William B. LaRue, residence hall preventative maintenance worker in Housing and Food Services.
Sandra S. Livingston, residence hall utility worker in Housing and Food Services.
Christopher Miller, machinist B in College of Earth and Mineral Sciences.
Lee E. Phillips, truck driver, Incinerator, at The Hershey Medical Center.
William B. Presovich, residence hall preventative maintenance worker in Housing and Food Services.
Carol M. Smith, operator, Engineering Copy Center, in College of Engineering.
Charles C. Smith, maintenance worker utility at Penn State Harrisburg.
Willie N. Williams, maintenance worker utility at Penn State Delaware County Campus.
Gene R. Young, kitchen worker at The Hershey Medical Center.

EMPLOYEE BENEFITS

A regular column provided by the Office of Human Resources

Enrollment packets

The enrollment period for 1996 benefits coverages, which extends from Nov. 1 through Nov. 30, will give faculty and staff the opportunity to switch from one medical plan to another and to make other benefits elections.

Enrollment packets containing benefits information will be sent by campus mail the last week of October to all full-time faculty and staff. A personalized benefits statement indicating the University benefits programs in which the employee is currently enrolled will be included in each packet.

A flexible benefits election form for 1996 also will be included. Faculty and staff members who wish to enroll in Flexible Benefits Option I (contribution conversion), Option II (health care expense reimbursement) or Option III (dependent care reimbursement) may do so. Those already enrolled who wish to continue participation in Flexible Benefits Option II or Option III must complete the flexible benefits election form for 1996. Faculty and staff who currently participate in Flexible Benefits Option I do not need to take any action to continue the benefit.

Forms for plan changes or flexible benefits options must be returned to the Employee Benefits Division no later than Nov. 30.

For more information contact the Employee Benefits Division at (814) 865-1473.

If a faculty or staff member needs to change name, address or dependent information, the Employee Benefits Division should be contacted to obtain the necessary forms.

Benefits open houses

In conjunction with the annual benefits switch enrollment period, the Employee Benefits Division will hold informational benefits open houses from 8 a.m. to 4:30 p.m. Friday, Nov. 10, and Friday, Nov. 17, in 101 Kern Building on the University Park Campus.

Faculty and staff members may use this opportunity to get more information on benefits options. Representatives from the Employee Benefits Division will be available to answer benefits questions. In addition, representatives from the following areas will be available:

HealthAmerica — HealthAmerica HMO, Healthpass PPO, Plan A Medical Plan, Express Scripts — new pharmacy plan, National Vision Administrators (NVA) — new vision plan administrator, Ritecure Pharmacy — Maintenance Prescription Drug Plan; Equitable, VALIC, Vanguard, TIAA-CREF and Fidelity — supplemental retirement annuity plans; SEERS and TIAA-CREF retirement plans; Child Care Services — child care information; Faculty/Staff Health Promotion Division — wellness programs and Employee Assistance Program (EAP).

Faculty and staff who are not at University Park, including The Milton S. Hershey Medical Center, will have an opportunity to attend benefits sessions at their locations. The times and dates for the sessions will be announced.

The ARTS

AT PENN STATE

Percussionist to perform

The Saint Paul Chamber Orchestra, featuring percussionist **Evelyn Glennie**, will perform at 8 p.m. Friday, Oct. 27, in Eisenhower Auditorium on the University Park Campus. The concert is sponsored by the College of Arts and Architecture Center for the Performing Arts.

Ms. Glennie has performed with numerous symphonies, including Baltimore, Cincinnati, Cleveland and Milwaukee. She has also toured widely in Europe, Japan, East Asia and Australia. She will be featured in Vivaldi and Miyoshi pieces at the Penn State concert.

For ticket prices and information contact the Arts Ticket Center, at (814) 863-0255.

Homingcoming concert

The Penn State Glee Club will present the 26th Annual Homingcoming Concert at 7:30 p.m. Saturday, Oct. 28, in Schwab Auditorium on the University Park Campus. The concert is dedicated to **Graham and Sandra Spanier** and their family to welcome them to Penn State.

Highlights of the program will be the world premieres of "Journeys" and "Willow Songs," and sections of "Mountain Laurels," composed by **Bruce Trinkle** to celebrate the State College Centennial. The texts are drawn from the works of local poets. The Graduate Brass Quintet: **Michael Hooper**, percussionist; and **Neil Holter**, string bass; will accompany the Glee Club.

The Glee Club is directed by Mr. Trinkle, associate professor in the College of Arts and Architecture School of Music, who is celebrating his 25th year as director.

Tickets for the concert are \$6 for adults; \$3 for students, and are available through the Eisenhower Arts Ticket Center. For ticket information contact the Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) ARTS-TIX.

Proceeds from the concert will benefit the Glee Club's concert tour to Wales in March 1996.

Blue and White Montage

The College of Arts and Architecture School of Music presents its third annual Montage Concert from 4 to 5 p.m. Sunday, Oct. 29, in Eisenhower Auditorium on the University Park Campus. The concert showcases a variety of Penn State musical ensembles performing from several locations throughout Eisenhower Auditorium.

Tickets are \$4.50 for general

admission; \$3 for students and senior citizens. For ticket information, contact the Eisenhower Auditorium Ticket Center at (814) 863-0255.

Storyteller at Worthington Scranton Campus

Singer, songwriter and storyteller **Jack Gladstone** will perform at 7:30 Monday, Oct. 30, at the Penn State Worthington Scranton Campus. A Montana Blackfoot Indian, Mr. Gladstone offers audiences thought-provoking songs and narrative about the adventures, triumphs and tragedies of the Indian people.

Percussion ensembles

The Penn State Percussion Ensembles I and II, under the direction of **Dan C. Armstrong**, associate professor of music, and graduate teaching assistant **Jason Gianni**, will perform their annual fall concert at 8 p.m. Tuesday, Oct. 31, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Featured in this concert will be two students performing solo works with Percussion Ensemble I. African-style music will be presented through a performance of Phil Fain's "High Life." In their annual tribute to Halloween, the ensemble will play Bolcom's "Gracful Ghost Rag" and Rouse's "Ku-Ka-Ilumoku," a rousing portrayal of the Polynesian war god Ku. The audience is encouraged to attend the concert dressed in costume.

The concert is free to the public.

Bach's Lunch

The Singing Lions, a show choir directed by **Peter Kiefer**, will perform at the Bach's Lunch concert series at 12:10 p.m. Thursday, Nov. 2, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and University Lutheran Parish.

The audience may take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided. The concert is free to the public.

Pianist added to schedule

A performance by pianist and chamber musician **Barry Snyder** has been added to the Center for the Performing Arts 1995-96 season schedule. Mr. Snyder will perform at 8 p.m. Friday, Nov. 3, in Schwab Auditorium on the University Park Campus.

The concert is co-sponsored by the Center for the Performing Arts and the



Pianist **Barry Snyder** will perform at 8 p.m. on Friday, Nov. 3, in Schwab Auditorium on the University Park Campus. The concert is sponsored by the Center for the Performing Arts and the School of Music, with the Pennsylvania Music Teachers Association convening.

College of Arts and Architecture School of Music in conjunction with the Pennsylvania Music Teachers Association State Convention.

Mr. Snyder won the silver medal at the Van Cliburn International Piano Competition in 1966. He has performed with the orchestras of Montreal, Atlanta, Houston, Baltimore and Detroit, and has toured extensively in Europe and Asia.

Mr. Snyder has been professor of piano at the University of Rochester's Eastman School of Music since 1970. He will be offering a master class to conference participants during his Penn State visit.

Tickets for the Nov. 3 performance are \$10 for non-students; \$6 for students. For ticket information call the Arts Ticket Center at (814) 863-0255.

Hazleton fall theatre

The fall theatre production at the Penn State Hazleton Campus will be an evening of one-acts: "What I Did For Love." These five one-act productions will be held in the Highcases Commons from Nov. 8-11; the performances begin at 8 p.m.

"What I Did For Love" will include the plays "Sure Thing" by David Ives; "Changes" by Steve Schrum; "Opportunity for Comfort" by Audra H. Hearty; and "Passion, Poison and Petrification" by George Bernard Shaw.

The theatrical productions are under the guidance of **Stephen**

Schrum, instructor in theatre at Penn State Hazleton.

Tickets are \$4; \$2 for students and seniors.

Student art exhibited

An exhibition of Penn State student drawings is on display in downtown State College. "Luncheon of the Boating Party: Pierre Auguste Renoir à la Cliford Still" is on display in the store window of Gnomon Copy, 130 W. College Ave., through the end of October.

The exhibition features drawings by an architecture student enrolled in the Arch 121 visual communication course taught by **Richard Alden**, assistant professor in the Department of Architecture.

Odyssey on WPSU

Where public life ends and private life begins is the topic of discussion on the Nov. 1 Odyssey Through Literature broadcast, with **Christopher Clausen** of the Penn State English Department.

Professor Clausen's book *My Life With President Kennedy*, says host S. Leonard Rubinshtein, is personal, entertaining — and horrifying, as it details the American obsession with each others' private lives.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Wednesday at 8 p.m. on WPSU, 91.5 FM.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, October 26

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel, Penn State Mallet Ensemble.
Gay, Lesbian, Bisexual Lecture Series, 1 p.m., Palmer Museum Auditorium. Robert Repinski, printmaker, slide presentation of work. At 7 p.m., 101 Classroom Bldg., Mr. Repinski on "Artists and Models: Gay Men in Visual Art."

Center for the History of the Book, 3:30 p.m., Rare Books Room, Pattee Library. Janice Radway on "The History of the Book-of-the-Month Club."

■ Hispanic Heritage Month kickoff ceremony, 6:30 p.m., 112 Kern Bldg. President Graham Spanier will give opening remarks. Tomas Arinaga will be keynote speaker. November is Hispanic Heritage Month.

Shaver's Creek, 7 p.m. Pumpkin Carving. Call (814) 863-0200.

■ Lecture, 7:30 p.m., Palmer Lipcon Auditorium. Jay Picart on "Give Us This Day: Philippine Painting as Protest and Prayer."

School of Music, 8 p.m., Recital Hall. Tim Hertz, oboe.

Friday, October 27

Halloween Trails at Shaver's Creek Environmental Center. Hunted Forest Trail and Children's Magical Trail. Through Oct. 29. Call (814) 863-0200.

■ Gallery Talk, 1:30 p.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "African Art at the Palmer Museum." Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. The Saint Paul Chamber Orchestra. For tickets, call (814) 863-0255.

University Resident Theatre Company, 8 p.m., The Playhouse. "Measure for Measure" for the Performing Arts, 8 p.m., Eisenhower Auditorium. Through Nov. 4. For tickets call (814) 863-0255.

Saturday, October 28

Gallery Talk, 11:30 a.m., Christoffers Lobby, Palmer Museum. Efram Burk on "Bay Area Artists."

School of Music, 7:30 p.m., Schwab Auditorium. Penn State Glee Club Homecoming Concert. For tickets, call (814) 863-0255.

Sunday, October 29

Daylight-saving time begins (2 a.m.).
■ Film, 2 p.m., Palmer Lipcon Auditorium. "The Legacy."

School of Music, 4 p.m., Eisenhower Auditorium. A Blue and White Montage. For tickets, call (814) 863-0255.

Monday, October 30

WISE, 1 p.m., 102 Chambers Bldg. Shirley Maizum on "Women and Minorities in Science."

Tuesday, October 31

Halloween.
School of Nursing, 2 p.m., 101 H&H East. Mike Nolan on "Longitudinal and Multidimensional Aspects of Caregiving."

School of Music, 8 p.m., Recital Hall. Penn State Percussion Ensemble.

Wednesday, November 1

■ School of Nursing, 1 p.m., 101 H&H East. Janet Nolan on "Approaches to Child Abuse in the United Kingdom."

Green Architecture: A Special Series on Designing with Nature, noon, 210 Engineering Unit D. "Domes." Bring your lunch. Artist Talk Series, noon, HUB. Sam Chazar, woodcarver.

Center for Women Students, 7:30 p.m., 101 Classroom Bldg. Film/Discussion: "Dreamworlds II: Desire, Sex and Power in Music Videos."



Bruce Trinkley, associate professor in the College of Arts and Architecture School of Music, will direct the Penn State Glee Club at its annual Homecoming Concert at 7:30 p.m. Saturday, Oct. 28, in Schwab Auditorium on the University Park Campus. For ticket information, contact the Ticket Center at (814) 863-0255 or (800) ARTS-TIX.

Thursday, November 2

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel.

Shaver's Creek, 7 p.m. Species Extinction: Causes & Consequences. Call (814) 863-0200.

Friday, November 3

Center for the Performing Arts, 8 p.m., Schwab Auditorium. Barry Snyder, pianist and chamber musician.

Saturday, November 4

■ Film, 2 p.m., Palmer Lipcon Auditorium. Masai Manhood. Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. Le Cirque Eloize.

SEMINARS

Thursday, October 26

Ceramic Science, 11 a.m., 301 Steidle Bldg. George Nancollas on "Physical Chemical Studies of the Kinetics of Crystal Growth and Dissolution of Minerals: Applications to Surface Characterization." Center for Gravitational Physics & Geometry, 11:30 a.m. 339 Davey, Nuno Dias on "Gravity Without Gauge."

Sigma Xi, noon, 305 HUB. Richard Frisque on "JCV Virus: An Emerging Pathogen." Economics, 2:30 p.m., 413 Kern. Ed Coulson on "The Location of Sources of Growth of U.S. Income."

Veterinary Science, 3:30 p.m., 16 Agricultural Sciences & Industries, Kristen Aherne on "Selenium and Endothelial Cell Adhesion Molecules." Physics, 3:30 p.m., 101 Osmond, Stephen Block on "Using Optical Tweezers to Study Biological Motors."

Friday, October 27

Entomology, 11 a.m., 504 Agricultural Sciences and Industries, James Telle on "The Challenge of Developing IPM Programs that Satisfy Ag Producers and State and National Interests."

Mathematics, 3:30 p.m., 212 McAllister, Tom Mullin on "Chaos and Turbulence: Is There a Link?"

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Katherine Freeman on "Molecular and Isotopic Markers of Environmental Change in Modern and Ancient Oceans."

■ Agronomy, 3:35 p.m., 101 ASI. Elson Silva on "Analysis of Rainfall Distribution in the Amazon Basin using Kriging, non-parametric Statistics, and GIS."

Philosophy, 4 p.m., 124 Sparks. Carl Hausman on "Poire and the Future of Philosophy."

Mathematics, 4:30 p.m., 116 Osmond, Ulrich Hornung on "Optimal Control of Soil Venting Procedures."

Tuesday, October 31

Geosciences, 4 p.m., 26 Hosler. Jacques Schott on "Dissolution Kinetics of Silicate Minerals."

Graduate Program in Nutrition, 4 p.m., 5-209 Henderson. Caroline Apovian, Geisinger Medical Center, on "Obesity in the Elderly."

Wednesday, November 1

■ Center for Russian and East European Studies, noon, 102 Weaver Bldg. Voldymir Dibrova on "After Empire: A Glimpse at the Cultural Landscape." Gerontology Center, noon, 101 H&H East. Martha Storandt on "Borderline Between Healthy Aging and Alzheimer's Disease."

Thursday, November 2

Ceramic Science, 11 a.m., 301 Steidle Bldg. Nick Borrelli on "Review of Non-linear Optics of Glasses and Glass-Ceramics." Computer Science & Engineering, 4 p.m., 302 Pond Lab. D.K. Panda on "Can We Do Better than Unicast Message-Passing in Wormhole-Routed Parallel Systems?"

Friday, November 3

Accounting Research, 3:30 p.m., 333 Beam BAB. Amy Dunbar on "An Analysis of the Flat Tax: Who Wins and Who Loses."

■ Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Baruch Halpern on "How Large was King David's Empire? An Exercise in Ancient Geography."

Philosophy, 4 p.m., 124 Sparks. Alan Sica on "Weber and the Future of Philosophy."

Saturday, November 4

Choosing the Right Publisher: A Bookseller's Perspective on Academic Publishing, 9 a.m.-5 p.m., Penn State Scanlon. Presenters are Michael Svoboda and Peter J. Potter. To register call (800) PSU-TODAY.

CONFERENCES

Friday, October 27

Hot Investments \$\$\$, 1-5 p.m., The Penn State Scanlon. J. Randall Woolridge will discuss general financial themes. To attend, call (800) PSU-TODAY.

Alumni Investment Seminar, 25 attendees. CEAP/PA Professional Development, 50 attendees. The Penn State Scanlon. Pain Management Conference, 50 attendees. The Penn State Scanlon.

Monday, October 30

Leading Your Organization, 25 attendees, The Penn State Scanlon. Through Nov. 1.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m.
"Performance Today," Mon.-Fri., 9-11 a.m.
"All Things Considered," Mon.-Fri., 4-7 p.m.; Sat. & Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m.
"Fresh Air with Terry Gross," Mon.-Fri., 7-9 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein," Weds., 8 p.m.
"Car Talk," Fri., 8 p.m. and Sun., 6 p.m.
"Living On Earth," Mon., 8 p.m.
"Inside Universe," Sat., 4:30 p.m.
"The Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

Palmer Museum:

■ "Sleeping Beauties: African Headdresses from the Jerome L. Joss Collection at UCLA," through Dec. 3.

"Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

■ Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945, through March 10, 1996.

Pattee

East Corridor Gallery: "Visual Meditations," by Greta Ehrig. Using oil, watercolor, and pencil on floral subjects. Through Oct. 31.

Rare Books Room:

"Instructed Eye: Sight and Understanding in Artists' Manuals and Treatises," through Nov. 3.

Zoiler Gallery:

"Terrestrial Bodies," through Nov. 5. Features an eclectic group of 13 New York City artists.

■ Reflects an international perspective

TIPS

Information Penn State

Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather - 234; Arts Line - 345; University Calendar - 456.

Private Giving

Class of 1996 votes to endow fund to maintain elm trees

The Class of 1996 has voted to help preserve a University tradition—the University Park Campus' elm trees.

Voting in record numbers, members of the class chose to create an endowment to help maintain the trees. In the last several years, the University has lost between seven and 15 trees annually to age and Dutch Elm disease, seriously threatening not only the landmark Allen Street and Pugh Street elm-lined malls, but also the other elms scattered across campus. The University currently has just over 400 elm trees.

The elm tree endowment edged out two other options: creation of a gathering space in front of the HUB and restoration of the last mounted Eastern Mountain Lion, also known as the Nittany Lion.

Seniors voted to preserve tradition. Students since the 1880s have shared the shade and beauty of these trees—the University's elm tree stand is among the oldest and largest in the country. Steven Carrel, chairman of the senior class gift committee, said, "By choosing this gift, we're making sure the University will have a permanent source of funds to preserve the elms. The trees will be here forever."

The elm trees have long-held significance to Penn State students. The Class of 1986 raised funds to replace five elm trees in front of Schwab Auditorium that were diseased. This year's gift, however, will do more than just replace elm trees: the committee hopes to raise more than \$125,000 to establish an endowment for the preservation of the elm tree stock. The University will invest the gift, and about one half of the



Steven Carrel, chairman of the senior class gift committee, talks to a member of the news media about the Class of 1996 gift to the University. The students, who voted in record numbers, elected to endow a fund to maintain the University Park Campus elm trees.

Photo: Greg Grieco

annual income it earns will be used for maintenance, upkeep and replacement of the elm trees. The remainder will be reinvested with the principal funds for continued growth.

"The senior class gift will provide a permanent and dependable source of funding for the preservation of our elm tree stand," George Schimmel, director of Physical Plant Maintenance and Operations, said. "We have limited resources to devote to the upkeep and replacement of the elm trees. This endowment will help ensure that future classes will enjoy the beauty of our elm trees."

This year's senior class voted in record numbers—1,350—and set the highest pledge rate in the history of the senior class gift: 75 percent of those voting have

already pledged a portion of the balance of their general deposit, for a record total of more than \$32,000 pledged to date.

The majority of contributions are made by seniors who pledge the balance of their general deposit. The University holds the \$50 deposit during a student's undergraduate years to cover unforeseen expenses, fees and emergency costs.

Senior class gifts have been a Penn State tradition since 1861, and include such landmarks as the Old Main clock tower and the Nittany Lion Shrine.

Last year's class raised more than \$103,000 to create Foundry Park, a one-acre park behind University House and Hammond Building on the University Park Campus that will contain benches, landscaping and park lighting.

Couple gives \$110,000 for fellowship in engineering

Frank and Mildred H. Gabron have given the College of Engineering \$110,000 to endow a fellowship for mechanical engineering graduate students interested in careers in industry.

Frank Gabron, chairman of the board of directors of Helix Technology Corp., drew on his own experience in developing guidelines for the Gabron Graduate Fellowship in mechanical engineering.

"Industry needs the best students," Mr. Gabron, who has a master's degree in mechanical engineering from Penn State, said. "When graduate students define and carry out a research project and communicate their work through a thesis, they learn engineering the way it is done in industry. They develop broader skills and are equipped to deal with technically complex problems."

The Gabrons have a history of involvement in engineering education. They previously endowed two undergraduate scholarships in engineering and, in 1990 and 1991, Mr. Gabron taught a course on entrepreneurship and innovation as the Keen Professor of engineering entrepreneurship. He is also a charter member of the Leonard Center for the Enhancement of Engineering Education.

Helix, a publicly held manufacturing company, is the world's leading producer of vacuum equipment used in the production of semiconductors. Mr. Gabron joined Helix in 1974 and served as president and chief executive officer from 1980 to 1989.

From 1960 to 1974, he was a member of the senior staff of Arthur D. Little Inc., an international research and management consulting firm, where he managed a group of engineers and scientists working on product development. He was awarded a NASA Engineering Achievement Award in 1969 for his work on developing lunar surface experiments for the Apollo 11 manned lunar flight.

Mr. Gabron is an Outstanding Engineering Alumnus and a Penn State Alumni Fellow.

Former athlete pledges \$50,000 for Hall of Fame

With a \$50,000 commitment, State College native David M. Joyner has joined other former Penn State student-athletes in helping to fund Penn State's \$5 million All-Sports Hall of Fame project.

The Hall of Fame, which will be constructed through any public revenues, University funds or tuition money, will showcase the achievements of the University's student-athletes both on and off the field. Each varsity sport will have an area for displays, awards and memorabilia. The Hall will be constructed between The Jorden Center and Beaver Stadium.

A mail and phone fund-raising effort directed at all former student-athletes except football players has already yielded more than \$600,000 in gifts and pledges for the project. Dr. Joyner is one of four former football players heading a committee to generate support for the Hall of Fame from football players, who will have the opportunity to make a gift during football season.

Dr. Joyner's gift will be directed to the men's swimming display area. "The Hall of Fame will provide a central location for old friends to meet and reminisce—maybe even show off

to their kids—when they visit Penn State," said Dr. Joyner.

He was co-captain of the football and wrestling teams in 1971-72, selected to five different All-American squads as an offensive tackle, Eastern heavyweight wrestling champion as a junior, an Academic All-American, a recipient of an NCAA graduate fellowship and a National Football Foundation Scholar-Athlete fellowship.

Dr. Joyner is a 1972 graduate of Penn State and a 1976 graduate of The Milton S. Hershey School of Medicine.

He was inducted into the GTE Academic All-American Hall of Fame

in 1991. In 1992, he received the Distinguished Alumni Award.

He is an orthopedic surgeon at Joyner Sports Medicine Institute of Harrisburg, and was the chief physician for the United States Olympic Team during the 1992 Winter Games.

Dr. Joyner has remained involved with his alma mater.

He co-chaired the Paterno Libraries Endowment and served on the Libraries Development Council, the Penn State Harrisburg Board of Advisors, and on The Hershey Medical Center Capital Campaign Committee.

Partings

Library supervisor retires

Pauline "Polly" Gunsallis, library supervisor and circulation coordinator at Penn State Harrisburg's Heindel Library, has retired after 25 years service.

Ms. Gunsallis helped guide the library through a period of great change and expansion. In 1972 she organized and set up the circulation and reserve areas of the library. In 1984, when the Library Information Access System (LIAS) came online at Penn State Harrisburg, she helped ease the transition.



Pauline Gunsallis

the Associated College Libraries of Central Pennsylvania (ACLCP) on Oct. 6 in Gettysburg.

She also oversaw the implementation of the automated circulation system in 1992.

Throughout her career at the Heindel Library, Ms. Gunsallis has retained an enthusiastic commitment to the profession and to the people she has worked with and served.

She mentions her longtime friendships as one of the high points of her tenure.

Dozen end their service to University

Janet P. Alwang, lecturer in English, at the Penn State Delaware County Campus, from Sept. 1, 1976, to Sept. 1.

Rose M. Barnes, staff assistant VIII at The Hershey Medical Center, from July 9, 1979, to July 29.

Diana R. Dunn, professor of leisure studies in the College of Health and Human Development retired from the University June 30 after 12 years of service.

Catherine E. Fyock, staff assistant VII, College of Communications, from June 1, 1979, to Aug. 1.

Billye M. Howard, medical technologist at The Hershey Medical Center, from July 1, 1970, to Aug. 19.

Katherine S. Humbert, associate extension agent, College of Agricultural Sciences, served the University from April 1, 1981 to Aug. 1. Retired after 14 years.

Ralph J. Leach, operating mechanic, Office of Physical Plant, from Jan. 26, 1981, to Sept. 2.

Richard C. Lindsey, lead power plant operation and maintenance, Office of Physical Plant, from March 5, 1984, to Aug. 19.

Eileen T. Loffreda, physical therapy aide, The Hershey Medical Center, from April 23, 1979, to July 29.

Purification O. MacDonald, senior director planning analyst, Office of the President, from May 1, 1980, to Sept. 16.

Patricia L. Rosdill, administrative assistant I, Research and Graduate School, retired June 30 after 25 years of service to the University.

Joyce I. Winters, coordinator, Neurophysiology Lab at The Hershey Medical Center, from Jan. 17, 1983, to Sept. 2.

Mineralogy professor ends 27-year career

Deane K. Smith, professor of mineralogy in the Department of Geosciences and an international expert in mineralogy and crystallography, has retired with emeritus status after 27 years as a member of the Penn State faculty.

Throughout his career, Dr. Smith's research has focused on the application of crystallography and X-ray diffraction techniques to studies of mineral and related compounds.

Such applications have included the synthesis of new materials for laser and nonlinear optical devices, as well as for use in nuclear waste management.

He has published nearly 125 research articles as symposium contributions, book chapters and in such journals as *American Mineralogist*, *Advances in X-ray Analysis*, *Analytical Chemistry*, *Journal of Crystal Growth* and *Journal of Applied Crystallography*. He is co-author and co-editor of two monographs: *Studies in Mineralogy and Precambrian Geology and Calculated X-Ray Powder Patterns for Silicate Minerals*, published by the Geological Society of America in 1972 and 1969 respectively.

Dr. Smith is founding editor-in-chief of *Powder Diffraction*, an international journal of materials characterization. In 1991, he had the unusual honor of having a newly discovered mineral named for him and approved by the Commission on New Minerals and Mineral Names of the International Mineralogical Association. "Deane-smithite" is an exceedingly rare mercury chromate sulphide that was found



Deane K. Smith

in association with cinnabar near the long-abandoned Clear Creek mercury mine in California.

He is also recipient of the 1991 C.S. Barrett Award in Diffraction Analysis.

A native of California, he received a bachelor's degree in geology in 1952 from the California Institute of Technology and a Ph.D. in geology from the University of Minnesota in 1956. From 1956 to 1960, he

was a research associate of the Portland Cement Association Fellowship at the National Bureau of Standards in Washington, D.C. During the 1960s, he worked as a chemist in the Inorganic Materials Division of the Lawrence Radiation Laboratory, now Lawrence Livermore National Laboratory, California, and later as assistant section leader of the lab's Properties of Materials Section.

In 1968, he joined the faculty of the Department of Geosciences as an associate professor and became professor in 1971.

He is a Fellow of the Geological Society of America and the Mineralogical Society of America, and was elected to the Commission on Powder Diffraction of the International Union of Crystallography for 1993-96. He has served in various capacities within the American Crystallographic Association and the Joint Committee on Powder Diffraction Standards, the international Centre for Diffraction Data, and has been adviser to the Nittany Valley Gem and Mineral Club.

Obituaries

Professor emeritus dies in Florida

Robert D. Reifsnider, of Boca Raton, Fla., professor emeritus of theatre arts, died Sept. 15. He was 83.

He graduated from Emerson College with a bachelor's degree in English in 1938, and received a master's degree in theatre from the University of Michigan in 1943. He served in the Intelligence Section of the U.S. Army from 1942 to 1946.

Mr. Reifsnider was appointed instructor in the dramatics department in 1946, was promoted to associate professor in 1952 and then to professor in 1970. He taught acting, directing, television drama, television directing and movement and dance.

After his retirement in 1972, he worked as a part-time instructor in the theatre department of Florida Atlantic University. He was a volunteer for Insight for the Blind, donating more than 2,000 hours recording books on tape for the blind. He also volunteered and participated in the theatre in State College during the summer. He recorded textbooks on tape for blind college students at Penn State and performed in productions at Pennsylvania Centre Stage.

William Felcenko, residence hall maintenance worker, Housing and Food Services, died Sept. 7 at the age of 77. Began work at the University on Dec. 6, 1961; retired June 15, 1978.

S. Bernice Fleming, admissions counselor in Admissions, Records and Scheduling, from Sept. 1, 1940 until her retirement Dec. 1, 1974; died Aug. 17 at the age of 80.

Marie I. Hartel, senior research technician, The Hershey Medical Center, from Feb. 27, 1989; died Sept. 29 at the age of 44.

Albert S. Kerstetter, residence hall project worker, Housing and Food Services, from Oct. 16, 1949, until his retirement Aug. 1, 1980. He died Aug. 30 at the age of 71.

Andrew B. Kopchik, utilities analyst, Office of Physical Plant, from Feb. 13, 1961, to March 31, 1990; died July 17 at the age of 64.

Herbert E. Johnson, residence hall preventive main-

tenance worker, Housing and Food Services, from Feb. 21, 1974, until his retirement May 5, 1993; died Sept. 3. He was 63.

Dorothy J. Martin, administrative aide, Continuing Education, died Sept. 29 at the age of 61. She worked at the University from July 14, 1975, until her retirement Aug. 1, 1991.

Pauline A. Miller, food service worker, Housing and Food Services, from April 16, 1968, until her retirement May 10, 1988; died Sept. 7 at the age of 72.

Glenn F. Ross, greenhouse worker, College of Agricultural Sciences, from Oct. 1, 1946, until his retirement Oct. 1, 1972; died Sept. 10. He was 81.

Timothy A. Witherite, elevator technician, Office of Physical Plant, died Aug. 14 at the age of 32. Worked at the University from Oct. 4, 1982.

Geneva W. Workman, food preparer, Housing and Food Services, from Sept. 30, 1967, until his retirement Jan. 1, 1982; died Sept. 12 at the age of 79.

Appointments

University Libraries welcomes Audio-Visual Services manager

Stan Diamond has joined the University Libraries as the new manager of Audio-Visual Services.

Previously the director of the Instructional Media Department at St. Lawrence University in Canton, N.Y., Mr. Diamond designed and implemented new media technologies that benefited both the university and the community. While at St. Lawrence, he created a 60-channel campus television network that faculty could use for instruction and students could access from any room on campus.

He also oversaw the implementation of satellite TVRO dishes that broadcast campuswide programs in French, German, Russian and Spanish. In addition to the development of more advanced audiovisual technologies, the video collection at St. Lawrence grew from 1,100 titles to more than 3,500 titles while he was director.

Before his tenure at St. Lawrence, Mr. Diamond created the Audio-Visual Department at Vassar College in Poughkeepsie, N.Y. Under his direction, new sound systems were installed on campus and the campus movie theater was renovated with new equipment and furnishings.

A graduate of the City College of New York, where he earned a bachelor of science degree in political science, and of the New School for Social Research in New York City, where he earned a master of science degree in media studies, he is a member of a number of professional organizations, including the Association for Educational Communications and Technology and the Collective of College Cable Operators and Administrators, of which he is vice president.

Bryce Jordan Center names plant manager

Robert A. Fantaski has been named plant manager for The Bryce Jordan Center.

Mr. Fantaski will be responsible for the overall administration and supervision of the plant operations at the Jordan Center. This includes maintaining the functionality of the facility and its equipment and fixtures, assuring cleanliness in all areas, and assuring the accuracy and timeliness of all event setups and takedown.

Mr. Fantaski comes to the center from the Department of Housing and Food Services at University Park where he served as supervisor of maintenance. He has worked previously as an engineering officer in the U.S. Air Force, serving at Air Force bases in Virginia, Pennsylvania, Portugal and Texas. He presently holds a commission as a captain in the U.S. Air Force Reserve.

Mr. Fantaski received his B.S. in industrial engineering from Penn State in 1982, and has partially completed work toward an M.S. in engineering management at The



Stan Diamond

George Washington University. He also has attended Air University, the Air Force Institute of Technology and Recruiting Officer School.

College of Engineering program names co-directors

Michael P. Hottenstein of The Smear College of Business Administration and Clayton O. Ruud of the College of Engineering have been named co-directors of Penn State's new Quality in Manufacturing Management Program (QMM).

Recently launched by the University, the one-year, graduate program combines learning in management and engineering to prepare students for leadership in manufacturing and production. A special focus of the program is on quality concepts in the development of new products and their delivery to the marketplace. Targeted primarily to people with backgrounds in engineering, business and the sciences, the program leads to a master of manufacturing management degree (MMM).

Dr. Ruud is a professor of industrial engineering in the College of Engineering and assistant director of the Intercollege Materials Research Laboratory. His research interests are in manufacturing processes, nondestructive evaluation and materials process modeling.

He is also Penn State's representative to the National Coalition for Manufacturing Leadership, an organization which promotes cooperation among industry and colleges of business and engineering to achieve global manufacturing market preeminence for the U.S. Penn State is one of 10 leading universities in the organization and one of its founding members.

Dr. Hottenstein is a professor of operations management in The Smear College. In addition, he serves as faculty member-in-charge of the manufacturing option of the Penn State MBA program, and as associate director of the Center for the Management of Technological and Organizational Change. His research explores the management of advanced manufacturing technology, manufacturing strategy and job shop scheduling.

Engineering librarian joins University Libraries

Kelly M. Jordan has been named engineering librarian in the University Libraries.

Since January 1995, Ms. Jordan has been a graduate assistant at the Florida Adult Literacy Resource Center. She classified, cataloged and wrote abstracts for new library materials. In addition, she performed information searches for literacy groups and was involved with collection development activities.

Her other positions include librarian at the Defense Nuclear Agency Safety Library, a supervisor and user consultant at the Chatham College Computer Center, and a summer library assistant at the Naval Sea Systems Command Technical Library.

Ms. Jordan's professional activities include membership in the Special Libraries Association and the American Libraries Association. She is also a supporter of the Smithsonian Museum of the American Indian.

She earned a bachelor of arts degree in history from Chatham College in Pittsburgh and a master of science in library and information studies from Florida State University.

Mont Alto appoints recruitment, admissions director

Joyce M. Matthews, assistant director of Student Affairs at the Penn State Mont Alto Campus, has been appointed director of recruitment and admissions-CES in the Undergraduate Admissions Office.

In this position, Ms. Matthews is responsible for working with Commonwealth Educational System staff to develop and implement process improvements related to recruitment and admission activi-

ties for CES. She will advise and assist campus personnel in identifying recruitment strategies and developing recruitment plans, as well as provide leadership in developing special projects and yield-enhancement activities.

As the Mont Alto Campus enrollment planning officer from 1991-95, she led the campus admissions effort, contributing to three years of record enrollment. Ms. Matthews began working for the University in 1987 as coordinator of residence life at University Park. Previously, she worked in admissions at Hagerstown Business College in Maryland and Thomas Nelson Community College in Virginia.

Ms. Matthews has a master's degree in counselor education, student personnel emphasis, from Penn State and a bachelor's degree in public relations/journalism from Shippensburg University.

University Libraries gains EMS librarian

Lisa A. Recupero has joined the University Libraries as an earth and mineral sciences librarian.

Before her appointment, she served as a reference librarian at the University of Missouri-Rolla, a mining and engineering school. Along with providing reference service for the engineering and mining curriculum, she also served as government documents coordinator for a 30 percent selective depository. Other duties included managing department acquisitions for physics, civil engineering and the geosciences; maintaining the electronic government resources collection; and teaching bibliographic instruction sessions.

Ms. Recupero also has been a library intern at the North Carolina State University Natural Resources Library and a community ecology research library assistant at The Nature Conservancy in Chapel Hill.

She is a member of the Special Libraries Association Geography and Map Division and serves as technical editor for the division's bulletin. She is also a member of the North American Cartographic Information Society and the Geoscience Information Society.

Ms. Recupero received a bachelor of arts degree in English and geography from the State University of New York at Albany and a master of library and information science degree from the University of North Carolina-Chapel Hill.

Assistant revenue manager joins Bryce Jordan Center

Catherine A. Veneziano has been named assistant revenue manager for The Bryce Jordan Center.

Ms. Veneziano, in conjunction with athletic ticket management, will assist in the selection, hiring, staff development, training and scheduling of ticket center staff at the Jordan Center. She also will be responsible for ticket distribution and billing, as well as customer relations.

Previously she served as staff assistant for the Penn State Center for the Performing Arts. Ms. Veneziano also has an extensive background as a manager and consultant in the travel industry. She earned her associate degree in specialized business from Central Pennsylvania Business College and a certificate in business management from Penn State. She is currently working on associate and bachelor's degrees in business administration from Penn State.



Catherine A. Veneziano



Robert A. Fantaski

Appointments

Two come on board at Worthington Scranton Campus

E. Meredith Young was appointed director of continuing education at the Penn State Worthington Scranton Campus, while Dane C. Hewlett will assume the duties of an area representative for that campus.



E. Meredith Young

Ms. Young will be responsible for the administration of Worthington Scranton Campus continuing education offerings in Lackawanna, Susquehanna, Wayne and Pike counties and portions of Wyoming and Monroe counties. She will coordinate the campus' graduate credit course offerings for teachers, on- and off-campus, non-credit and continuing education unit classes; and professional programs created individually for business and industry.

Mr. Hewlett will be responsible for developing and marketing customized technical and management development programs for the local business community. These programs will



Dane C. Hewlett

include workshops and courses in marketing and customer service, quality management and productivity improvement, and general supervisory and computer skills.

Ms. Young received a master's degree in adult learning and development and a bachelor's degree in communication from Cleveland State University.

Before her appointment, she served as director of the Chamberlin Center for Part-Time Studies at Keystone Junior College. She has held recruitment and enrollment positions at Cleveland State

University and Notre Dame College, and was an adult education instructor for the Lakewood, Ohio Board of Education.

Ms. Young's current professional memberships include the Association of Continuing Higher Education, American Association of University Women, National Association of College Admissions Counselors, Middle States Association of College Registrars and Officers of Admission, and National Association of Female Executives.

Mr. Hewlett graduated from Choate Rosemary Hall and the University of Pennsylvania with a bachelor of science degree in economics. He is currently pursuing a master's degree in human resource management with a concentration in organizational leadership from the University of Scranton.

Formerly, Mr. Hewlett served as seminar coordinator/business consultant for the Wilkes University Small Business Development Center. He was also employed by Dale Carnegie & Associates Inc. as an area representative and held positions in the Corporate Banking Division at PNC Bank, N.A. He serves on the Clarks Summit Borough Council and Abington Area Joint Recreation Board.

Outstanding Alumni

College of Agricultural Sciences honors several

The College of Agricultural Sciences has named several graduates outstanding alumni. All were honored at a reception on the University Park Campus. The outstanding alumni are:

■ **Catherine Adams**, director of quality systems for the Campbell Soup Co. in Camden, N.J. Dr. Adams is responsible for implementing next-generation quality programs at all of Campbell's production plants. The company has more than 50 production sites in the United States and more than 100 facilities in foreign countries. She joined Campbell Soup in 1993 after spending much of her career working for the federal government.

Dr. Adams graduated from Penn State in 1979 with a B.S. in food science. She earned a master's degree in food science from Michigan State University and a doctorate in the field from the University of Illinois.

She is a member of the editorial board of the *International Journal of Food Control*, and of the Institute of Food Technologists, the American Society for Quality Control and the American Dietetic Association. She chaired the Food Laws and Regulations Division and the Continuing Education Subcommittee of the Institute of Food Technologists from 1992 to 1993.

■ **Perry H. Balke**, division manager of finance for John Deere Industrial Equipment in Baltimore, Md.

Mr. Balke, who graduated from Penn State in 1969 with a bachelor's degree in agricultural mechanization, is in charge of dealer financing for the Baltimore division of John Deere Industrial Equipment Co., encompassing all of the Northeastern and mid-Atlantic states.

He has served on national and international task forces for the company. He was instrumental in reorganizing the firm's industrial division into a product support group and was a principal player in a marketing task force that established a joint venture between John Deere and Hitachi Equipment of Japan.

■ **D. Stuart Frear**, leader of plant science research at the U.S. Department of Agriculture Biosciences Research Laboratory.

Dr. Frear has been a world leader in researching the fate and degradation of agrochemicals in plant systems, with an emphasis on enzymatic degradation more than 60 articles on the subject. He has received the USDA Superior Service Team Award and the Burdick and Jackson International Research Award in Pesticide Chemistry, the most distinguished award given by the Division of Agrochemicals of the American Chemical Society.

Dr. Frear received his bachelor's degree in agricultural biochemistry from Penn State in 1951 and his master's and doctorate from Ohio State University in 1953 and 1955.

■ **Richard Grubb**, retired senior vice president and dean emeritus of the Penn State Commonwealth Educational System and former Pennsylvania Secretary of Agriculture.

Dr. Grubb retired from Penn State in 1991, after a long administrative career that culminated in his appointment as senior vice president and dean of CES in 1989. He was named secretary of agriculture by former Gov. Richard Thornburgh in 1985.

Dr. Grubb's roots in agriculture reach back to his family's Centre County farm, where he worked until he graduated from Penn State in 1954 with a B.S. in agricultural economics and rural sociology. He earned a master's degree in agricultural economics in 1961 and a doctorate in higher education in 1971, both from Penn State.

■ **Harry F. Roth**, general manager of Atlantic Breeders Cooperative. Mr. Roth graduated from Penn State with a bachelor's degree in dairy science in 1954. He has been general manager of Atlantic Breeders Cooperative since 1985. Before joining the cooperative, he worked for Penn State Cooperative Extension in York County.

Mr. Roth is a member of the board of directors for the Pennsylvania All-American Dairy Show and has been chairman of the show's Invitational Youth Dairy Judging Contest for 13 years.

He served on the board of directors of the National Association of Animal Breeders from 1977 to 1983,

and in 1994 won the association's distinguished service award.

■ **Larry Tombaugh**, dean of the College of Forest Resources at North Carolina State University since 1989. Dr. Tombaugh graduated from Penn State in 1960, earning a B.S. in forestry. He earned a master's degree in forestry from Colorado State University in 1963 and a doctorate in resource economics from the University of Michigan in 1968.

Dr. Tombaugh oversees 160 faculty members and 65 support staff and administers an \$11.5 million budget that includes responsibility for more than 90,000 acres of university forest lands.

He has also worked with the U.S. Forest Service and the National Science Foundation. He is a Fellow of both the American Association for the Advancement of Science and the Society of American Foresters, and has received the Society of American Foresters' Certificate of Merit and the National Science Foundation's Meritorious service award.

The College of Agricultural Sciences Outstanding Alumni Award was established in 1993 to recognize outstanding alumni and to give faculty, staff and students a chance to interact with them. A committee of deans and unit leaders selects recipients from among candidates nominated by academic units and interdisciplinary programs.

Highlight on Undergraduate Education

Class uses computers to learn about construction

Why would an assistant professor of engineering at a Big 10 university spend months videotaping the construction of a hotel building?

Because videotape of construction techniques will be incorporated into a multimedia, interactive computer program for use in a construction materials and methods classes.

As a first step, Hossain El-Bibany, assistant professor of architectural engineering, has digitized the videotape so it can be randomly accessed and used to show his students how construction takes place. The same mini-movies will be incorporated into an overall instructional design package.

"Today's architectural engineering students are not necessarily familiar with construction processes like steel erection, masonry work or concrete placement," Dr. El-Bibany said. "Yet they will be expected to incorporate these skills into plans and schedules for building construction."

Dr. El-Bibany's videos cover eight months of construction of a Marriott Courtyard hotel in State College. The hotel chain has a standard building plan, but each building is tweaked a little to accommodate local codes and terrain.

Architectural engineers design all the systems in buildings from electrical, plumbing, heating and air conditioning, to the frame structure and loads.

"In the past, learning the process of construction was left to industry," Dr. El-Bibany said. "Now, industry expects students to know and understand design and construction processes when they leave school."



High-tech teaching

Hossain El-Bibany, assistant professor of architectural engineering, has incorporated an interactive computer program into construction materials and methods classes.

Photo: Greg Grieco

Videotapes or mini-movies and still photographs are not the only components of interactive computer programs. Graphs can be redrawn, numbers can be replaced and the "what if" game can be played.

For example, the programs allow students to ask, "What if I only use one scrapper to prepare the ground?" "How long will it take?" "What if I use two scrapers?" "How much will each cost?" "Is the time saved worth the expense?"

Because students can wander through an interactive program

exploring topics, seeing the actual process and equipment and working the equations, they develop a feel for the integrated design-construction process.

Dr. El-Bibany first became interested in multimedia programs in the classroom while a graduate student at Stanford University. He was part of a group that developed a multimedia program showing construction equipment — trucks, cranes, tractors, back hoes, scrapers, etc. — and how it operated. That project grew when industry and researchers began requesting a

programming framework that could be used without requiring exhausting, time-consuming computer programming.

Multitool II, a product of Stanford University, was the outcome of that research, and the tool Dr. El-Bibany plans to use to develop his building-construction-design program.

Classroom studies are not the only application for these interactive, multimedia programs. Robert Baucio, a recent architectural engineering graduate and now at CRSS Construction Co. in Philadelphia, used Multitool II to capture an engineering feat for posterity.

As an intern at CRSS, Mr. Baucio followed the design and planning for the impulsive demolition of a large downtown Philadelphia building.

He recorded all the analysis and tracked all the steps in the process, including videotaping the building, placement of explosives and the final, climactic moment. He incorporated this information into an interactive, multimedia module.

"Buildings are not imploded very often and there is a lot of information that needs to be recreated or resurrected each time this type of project takes place," Dr. El-Bibany said. "Robert Baucio captured the process of explosive demolition, so that future projects won't have to recreate the steps, but can simply follow the existing pattern."

—Andrea Elyse Messer

BOOK SHELF

Manfred E. Keune, associate professor of German, is co-editor and co-author of *Kunert Werkstatt: Materialien und Studien zu Günter Kunerts literarischem Werk* with Manfred Durzak, professor für neuere deutsche literatur at the University of Paderborn, Germany.

The volume contains, in part, the contributions of Germanists from Germany, Australia and the United States, which were made during the International Kunert Symposium, planned by the Department of German and held on the University Park Campus in the Spring of 1994. The writer Günter Kunert was present at the symposium. He also contributed reflections, poems, and a conversation with Mr. Keune and Mr. Durzak to the volume.

The contributions in the volume represent essays and translations which present new approaches to the work of Mr. Kunert, one of the more critical observers of the German literary, political and cultural scene. As a postwar German author, Mr. Kunert offers a unique perspective conditioned by a life lived in East as well as West Germany. The contributions focus on Mr. Kunert's aesthetics, the possibility of contemporary poetry, the reception of his work, travel and place as a theme, structural elements of his narrative and the importance of Berlin in his work.

Kunert Werkstatt is published by Aesthesis Verlag in Bielefeld, Germany, a publishing house specializing in works dealing with topics in literary criticism.

Sally A. McMurtry, associate professor of history and interim head of the Department of History, is the author of *Transforming Rural Life: Dairying Families and Agricultural Change, 1820-1885*. The book explores how agricultural and rural life were transformed during the 19th century. It approaches dairying as a complex agrarian system in which land, animals and people interacted to produce a distinctive dairying culture.

Over time, social and economic forces combined to transform dairying from a home production system, dominated by women, to a factory system in which men took over both on the farms and in the processing of cheese and butter. This change interacted with urbanization and industrialization in the wider society. In particular, dairying women seized on new alternatives outside of farming to fashion new lives away from agriculture.

Leonard Mustazza, professor of English and American studies at the Penn State Abington-Ogontz Campus, and Steven Peikow are editors of *The Frank Sinatra Reader*, to be published by Oxford University Press.

The book, a unique anthology of reviews, photographs and memoirs — many back in print for the first time in decades, tells the story of Sinatra's career from its inception to the present.

The Frank Sinatra Reader sheds light on Sinatra as a teen phenomenon, follows the rise and fall of his career as a solo performer, his comeback as a mature recording artist with Capitol Records and his reign as a powerful and influential personality in the '60s. The book also contemplates Sinatra's ability to endure in a changing musical world.

Sinatra's discography, with some 1,800 recordings, 60 film credits, two Oscars, numerous Grammy's and a Grammy Legends Award, not to mention the undying loyalty of millions of fans across the world," Dr. Mustazza said.

Included among the writers, musicians and journalists that recount Sinatra's progress through the 20th century are Henry Pleasants, Arnold Shaw, Stephen Holden, Gay Talese, Whitney Balliet, Gene Lees and William Kennedy. Also included are more intimate recollections by writers who knew Sinatra personally.

Faculty/Staff Alerts

Final examination schedule

The Fall Semester 1995 final examination schedule is available to students via the campus-wide Gopher system at any student computer lab. Students can file for a conflict examination in the Registrar's Office, through Friday Oct. 27. After this date, students may only file for a direct conflict examination for a fee of \$10.

Holiday hours

The Penn State Information and Directory Assistance Operator Office will be closed for the Thanksgiving holiday. It will resume normal hours of operation from 7:30 a.m. to 11 p.m. on Friday, Nov. 24.

Open on Thanksgiving

Although the Nittany Lion Inn has not offered food service on Thanksgiving in past years, its dining room will be open from 11 a.m. to 4 p.m. on the holiday, Thursday, Nov. 23, this year. Reservations are suggested. For information or reservations, call the dining room at the Inn at (814) 231-7515.

Brown-bag discussion

In the brown-bag discussion "Enlightening Lunch — Making Sense of Managed Care" (WEL 067), learn about managed care systems while exploring ways to make informed health care decisions. Meets Thursday, Nov. 9, from noon-1 p.m., in 110 Henderson Building (The Living Center). Cost: None. To register, contact Jan Hawbaker at 865-3085 or JQH3@psu.edu.

Library seminars

The University Libraries is offering the following series of seminars during November to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM.

To register or learn more about the seminars, call (814) 863-0325.

Penn State Libraries Catalog in LIAS This seminar offers an overview of the University Libraries catalog.

Nov. 1 — 11 a.m.-1 p.m.; Nov. 9 — 5 p.m.; Nov. 20 — 3-5 p.m.
All sessions take place in Tower Room 402, Central Pattee Library.

Chemical Abstracts

This seminar teaches techniques for searching C.A.Search, the online database equivalent of Chemical Abstracts, for chemical literature.

Nov. 13 — 10:11-130 a.m., Reference Lecture Room, East Pattee Library.

Citation Indexes

This seminar teaches techniques for searching Social Citation Index and Arts and Humanities Citation Index. Nov. 2 — 1:30-3 p.m., Reference Lecture Room, East Pattee Library.

Data Management

Pro-Cite This seminar will describe how to use a bibliography and database management program. **Reference Manager** — This seminar will provide basic instruction in using Reference Manager software to create and manage bibliographies.

*Pro-Cite — Nov. 21 — 3-5 p.m.

*Reference Master — Nov. 22 — 1:30-3 p.m., Tower Room 402, Central Pattee Library.

Engineering

This seminar features practice in accessing and searching databases and resources available for research in engineering.

Nov. 1 — 6:30-8:30 p.m., Tower Room 402, Central Pattee Library.

Identifying Existing Software

Participants will learn how various University Libraries' databases and Internet resources can be used to identify existing software and multimedia. Nov. 2 — 10 a.m.-noon, Tower Room 402, Central Pattee Library.

Introduction to ArcView2

This seminar will provide participants with an introduction to the capabilities of ESRI's ArcView 2 software. Nov. 14 — 11:30 a.m.-1:30 p.m., 123 Walker Building.

Law/LEXIS

This seminar provides hands-on practice in accessing and searching the legal resources accessible through the LEXIS databases.

Nov. 8 — 9-11 a.m., Tower Room 402, Central Pattee Library.

Music

This seminar features hands-on practice in accessing and searching electronic resources in music.

Nov. 13 — 10 a.m.-noon, Tower Room 402, Central Pattee Library.

Overview of Global Positioning System (GPS) Technology

This seminar will provide a broad overview of GPS technology and examine possible applications in the areas of Geographic Information Systems, facilities management and research.

Nov. 8 — 11:30 a.m.-1:30 p.m., Room 5, Central Pattee Library.

Learn about the Internet

To learn more about the Internet and how it works, attend the seminars offered by the University Libraries and Computer and Information Systems this November at University Park.

Participation in these seminars requires some basic knowledge of the Internet. Advanced seminars are listed below and registration is required for hands-on sessions. To register contact Jean Cowher at (814) 863-4356 or by E-mail at jkc@psuvm.psu.edu.

Introduction to World Wide Web/Gopher

Sec. 3: Nov. 7, 6:30-8 p.m., 101 Classroom Building.

Introduction to the World Wide Web/Gopher Using IBM Computers (This is a hands-on session. Registration is required and limited to 15.)
Sec. 2: Nov. 14, 9-11 a.m., 116 Wagner Training Center.

Demonstrations

For a demonstration on video conferencing, join Penn State Educational Office Professionals from 12:10 to 1 p.m. Monday, Oct. 30, in Room 106 Mitchell Building on the University Park Campus.

Anna H. Taylor-Bram, instructional publications designer, and **Doug Carter**, head of teleconference services for WPX-TV, will discuss video conferencing and demonstrate the technique by PictureTel. Space is limited to 35 seats. Please call Shelley Gette at (814) 865-3422 for reservations.

PSEOP is also offering a special topic meeting, "Mailing and Addressing Services," at 12:10 p.m. Thursday, Nov. 2, in 101 Kern Graduate Building on the University Park Campus. The speaker will be Frank Sinclair, manager of Mailing and Addressing Services, who will discuss his area of expertise and also answer questions from the audience. For more information, contact membership coordinator Sandy McClaim at (814) 865-3900.

Help available

Continuing and Distance Education support services and seed funding are available to support dissemination of research through conferencing and the creation of continuing and distance education courses, both credit and non-credit. To help in this area, two funds have been established — the Program Development Fund and the Program Assistance Fund.

Continuing and Distance Education can also help individuals:

■ Be host for an academic conference to present research to national and international audiences;

■ Be host for conferences for colleagues within a specific discipline to bring visibility to the researcher, the department or the University;

■ Connect with external constituencies, including business and industry, government and the general public.

For more information on funding and services available, contact Patricia A. Book, associate dean for Continuing and Distance Education, at (814) 863-8355.

Married couples needed

The Department of Psychology is looking for legally married couples of all ages and backgrounds to participate in a study on daily experiences and marital relationships. Couples will complete daily diaries on their marital activities, and will receive \$30 and Penn State merchandise for their participation.

For more information, please call Linda Feldman, Department of Psychology, at (814) 863-1720 and leave message.

25-year Awards



Observing 25 years of service at the University are, from top, Dennis Z. Garbrick, Foreman, Trades, in the Office of Physical Plant; Frederick Welch, professor of education, in the College of Education; Nicholas F. Poili, instructor of English at the Penn State Altoona Campus; and Joyce Strickler, coder, Health Information Systems, and Mable Lindsey, driver/courier, Maintenance and Operations Division of Facilities Management, both at The Hershey Medical Center.

Awards

Four honored for outstanding teaching, research

The Matthew J. and Anne C. Wilson Awards are presented annually to recognize outstanding teaching and research achievement by faculty members in the College of Earth and Mineral Sciences.

The 1995 Wilson Awards for Outstanding Teaching were awarded to Albert L. Guber, professor of geology, and Paul C. Painter, professor of polymer science, for their exceptional dedication to the education and welfare of students. The award selection was based on nominations submitted by students.

Dr. Guber has been a member of the faculty of the Department of Geosciences for more than 30 years, serving as chair of the Geology Graduate Program from 1985 to 1988, and since then as associate department head for undergraduate programs. He established and sustained Penn State's association with the Wallups Island Field School in Virginia for 24 years and has been closely involved with development of the earth sciences major and the college's efforts to recruit minority students.

Dr. Painter has been a member of the EMS faculty since 1976 and serves as chair of the Polymer Science Program in the Department of Materials Science and Engineering. In addition to his teaching, Dr. Painter has been instrumental in development of the Polymer Science Club for students and



Albert L. Guber



Paul C. Painter



Deryck W. Holdsworth



Kwadwo Osseo-Asare

in providing research opportunities for undergraduates. He received the Wilson Research Award in 1991.

The 1995 Wilson Research Award recognizes the sustained excellence in research accomplishment demonstrated by Deryck W. Holdsworth, associate professor of geography, and Kwadwo Osseo-Asare, professor of metallurgy.

Dr. Holdsworth, a historical geographer who has been at Penn State since 1987, was honored for his monumental contributions to the landmark Historical Atlas of Canada. He was almost totally responsible for the production of Volume III, *Addressing the Twentieth*

Century, which was acclaimed for the quality of its scholarship and cartography. For his contributions to the atlas, Dr. Holdsworth received the Gold Medal of the Royal Canadian Geographical Society, the Centenary Medal of the Royal Society of Canada, and the Canadian Cartography Association Award for exceptional scholarly contributions to cartography.

Dr. Osseo-Asare, who is chair of the Metals Science and Engineering Program in the Department of Materials Science and Engineering, received the Wilson Research Award in recognition of his application of colloid and interface science and thermodynamic mod-

eling techniques to the processing of materials in aqueous and organic solvent systems. His work is lauded as a multidimensional approach that has broadened traditional concepts and advanced the field of aqueous processing. Dr. Osseo-Asare has been a member of the Penn State faculty since 1976.

This is the 26th anniversary of the Wilson Awards for Outstanding Teaching; the Wilson Research Award was established in 1989. The awards program is funded through bequests from the estates of Matthew and Anne Coughlan Wilson, the major benefactors of the College of Earth and Mineral Sciences.

PENNTAP wins award for project of the year

Penn State's Pennsylvania Technical Assistance Program (PENNTAP), directed by Jack Gido, has won the Project-Of-The-Year Award in the "special assistance" category in the National Association of Management and Technical Assistance Centers competition.

PENNTAP was honored for identifying the need for a program to train industrial extension agents and for filling that need with a nationwide training program developed in cooperation with the National Technology Transfer Center (NTTC).

Based in the University's Research and Technology Transfer Organization, PENNTAP helps Pennsylvania business and industry improve their competitiveness by providing free scientific and technological assistance through a statewide network of specialists. The program focuses on helping smaller businesses that do not have the in-house expertise or time to resolve specific problems.

In July 1992, PENNTAP approached NTTC to support the development of a national training program and NTTC provided funding in May 1993.

Subsequently, PENNTAP developed a workshop curriculum for the training program with a consortium of nine technology transfer/assistance organizations from four states. To date, 350 agents from management and technical assistance centers in 30 states have participated in 19 workshops.

Based on the initial success of the program, NTTC received additional funding from the federal Technology Reinvestment Project to develop a train-the-trainer program for the extension skills workshops and to develop an advanced workshop.

H&HD assistant professor earns Saubel Award for service to students

Dennis Shea, assistant professor of health policy and administration in the College of Health and Human Development, has received the college's 1995 Evelyn R. Saubel Faculty Award.

The Saubel Award recognizes faculty members for service to students. It was established in honor of Evelyn Saubel, a 1935 home economics graduate who was a longtime assistant to the dean in the former colleges of Home Economics and Human Development.



Dennis Shea

Dr. Shea is head of the undergraduate program and adviser to University Scholars in his department.

He helped develop an advising manual for students in health policy and administration to aid them in choosing and preparing for their careers.

"I am most impressed by Dennis's boundless energy and enthusiasm," a colleague wrote in nominating him for the award. "Dennis is a leader in the college in his endeavors to improve his undergraduate program and to challenge students to avail themselves of all that a university education has to offer."

Dr. Shea has been a faculty adviser for several student organizations, including the American College of Health care Executives, Health Policy and Administration Club, and the College of Health and Human Development Honor Society.

DuBois Campus names Penn State of the Quarter

Mark Matusky has been named the first recipient of the Penn State of the Quarter award at the Penn State DuBois Campus.

The newly established award recognizes, on a quarterly basis, a member of the DuBois Campus family who has rendered particularly noteworthy service to the campus and/or the community. An Awards Board composed of members of the faculty and staff selected Mr. Matusky for his work in assisting with the Hiller Plaza construction project.

A 20-year member of the technical services staff, Mr. Matusky holds associate degrees in electrical engineering technology and mechanical engineering technology, both earned at the DuBois Campus. He is a member of the engineering honor society Tau Alpha Pi.

He volunteers as an umpire for both Little League and Teener League in Sykesville. He also helps with the Reynoldsville girls softball team and is a member of the Sykesville Fire Department.

Sky survey shows most quasars were born in same era

Astronomers have discovered direct evidence that most quasars came into existence during the same era, when the universe was still in its infancy. This discovery will help scientists use quasars, the most luminous objects in the sky, as tools for studying the universe back to a time when it was less than a billion years old.

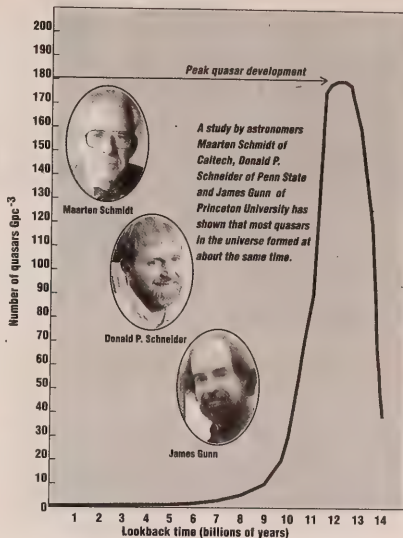
This survey allows scientists to investigate for the first time the era of quasar formation," Maarten Schmidt, a Caltech astronomer and a co-author of the study, said.

Using data from the recently completed quasar search known as the Palomar Transient Grism Survey, Dr. Schmidt, Donald P. Schneider of Penn State and James Gunn of Princeton University published their discovery in the July 1995 issue of the *Astronomical Journal*. (A grism, from the combination of grating and prism, is a transmission grating mounted on a clear, wedge-shaped piece of glass.)

The survey shows that the space density of quasars—the number of quasars in a given volume of space—reaches a maximum for those with redshifts between 1.7 and 2.7, and declines steeply for quasars with higher redshifts.

"This maximum means there was a peak in the rate of quasar formation between 1.9 and 3 billion years after the Big Bang," Dr. Gunn said, "and a much lower rate earlier in the history of the universe."

A typical quasar emits 100 times more energy than our home galaxy, the Milky Way. This makes them the most luminous and also some of the most distant known objects in the universe. Because light from quasars takes billions of years to reach the earth, scientists see them as they were billions of years ago. Therefore



quasars are important to astronomers as one of the best probes available for studying the conditions present in the early universe.

The small size of quasars is as

astounding as their luminosity. Studies of the variability of quasars have shown that their brightness can change on time scales of days, or sometimes just a few hours, which implies that

their physical size is not much larger than our solar system. Because of quasars' extraordinary brightness and small size, astronomers suspect that they are probably powered by matter spiraling into a supermassive black hole. But just how quasars form and whether black holes really power them remain a puzzle.

The Palomar Transient Grism Survey was undertaken with the goal of finding a large number of high-redshift quasars so that scientists could study the evolution of these objects back to a time when the universe was less than a billion years old. The survey began in 1985 using a special electronic camera designed by Dr. Gunn that was mounted on the 200-inch Hale Telescope at Palomar Observatory.

The survey succeeded in identifying 90 quasars with redshifts between 2.75 and 4.75, with a typical luminosity more than a trillion times that of our sun. Analysis of the survey data has revealed for quasars with redshifts greater than 2.7, the higher the redshift, the fewer quasars there are in a given volume of space.

Previous studies by other groups have shown that the space density of quasars increases dramatically—by a factor of 100 or more—in the range of redshifts between 0 and 2.

These results, combined with other studies of quasars with intermediate redshifts, indicate that the bulk of quasar formation must have occurred around 2.5 billion years after the Big Bang. This result will help astronomers refine their theories by placing important constraints both on models of galaxy and quasar formation, and on ideas about the mechanism that supplies quasars with their tremendous energy.

—Barbara K. Kennedy

Cosmic collisions found to create X-rays in radio galaxies

A team of astronomers has caught one of the brightest radio galaxies in the act of producing X-rays from its "radio lobes" or regions of intense radio emissions—a feat that has eluded astronomers since 1965 when the phenomenon, known as inverse Compton X-ray scattering, was first predicted. Radio galaxies are a powerful source of radio waves.

Using an orbiting X-ray observatory, the astronomers confirmed that fast-moving particles in radio lobes produce X-rays when they collide with low-energy photons in the cosmic microwave background, or the residual radiation from the Big Bang that permeates the entire universe. The research is considered significant because it establishes, for the first time, the strength of the magnetic field in a radio galaxy's lobes and the energy output of its nucleus.

Using the German/U.S./British satellite ROSAT launched in 1990, the astronomers detected diffuse X-rays from the galaxy Fornax A (NGC 1316)

coinciding with its two regions of intense radio emissions. This galaxy, the fourth-brightest radio source outside our galaxy, is 50 million light years from Earth.

Results of the research by Eric D. Feigelson, professor of astronomy and astrophysics, Sally Laurent-Muehleisen, graduate student, Ronald I. Kollgaard, a postdoctoral fellow, and National Radio Astronomy Observatory astronomer Edward Fomalont were presented to the American Astronomical Society.



Eric D. Feigelson

"These observations are critical for establishing the total energy in the lobes and the energy being emitted by the powerful cauldron buried at the center of the galaxy," Dr. Kollgaard said. "The idea that the energy contributions from the electrons and the fields should be about the same is appealing because it is nearly the same as the minimum energy needed to produce the radio emission."

"Our observations roughly agree with the prediction of minimum energy," Dr. Feigelson said. But there is some uncertainty in the interpretation of the ROSAT data. "While the spatial agreement between the X-ray and radio structures is excellent, the X-ray spectral data are inconclusive. An independent research group working with the Japanese ASCA satellite confirm the ROSAT discovery, but suggest that X-ray-emitting hot gas, as well as inverse Compton scattering, may be associated with the Fornax A radio lobes."

—Barbara K. Kennedy

ATHLETICS

A regular column provided by Intercollegiate Athletics

Jordan Center tickets

The Penn State athletic ticket office has mailed invoices to public season patrons for 1995-96 basketball tickets and has started to accept applications for both multiple-and single-game contests in the new Bryce Jordan Center.

Current plans call for the Nittany Lions to open the 15,000-seat Jordan Center on Jan. 11 vs. Minnesota in a game to be nationally televised by ESPN. The Lady Lions will make their first appearance in the new arena with a CBS-TV game against Georgia on Jan. 20.

For ticket information, call the athletic ticket office at (814) 863-1000.

Coach named hero

Assistant football Coach Jerry Sandusky has been named the Pennsylvania winner of the SGMA Heroes Award, sponsored by the Sporting Goods Manufacturer's Association and selected by members of the National Sportscasters & Sportswriters Association. Coach Sandusky was cited for his work with The Second Mile, a charitable organization he founded to help young people. The SGMA Heroes Award is presented "to individuals who, through their unique commitment and humanitarian spirit, have made an exceptional and lasting contribution to pursue sports excellence, sportsmanship, participation or opportunity within their local community."

Championship hosts

Penn State will be host for the Big Ten Conference field hockey championship Nov. 3-5 on the new artificial turf field behind Shields Building, directly across University Drive from the Jordan Center.

CARPOOLERS

Looking for a carpool from Mifflinburg to University Park. Work hours are 7:30 a.m. to 4:30 p.m. Call Pat at 865-0427

Looking to carpool from State College to Altoona, Monday through Friday, work hours 8 a.m.-4:30 p.m. Call Prashant at 237-6626.



Good stall-side manner

Jeff Bissett, a senior in dairy and animal science, rubs noses with an ewe as he treats her for thrush at the beef and sheep center on the University Park Campus. Mr. Bissett is a student who lives and works at the center. The photograph was taken for Jack Lauter's Comm 269 class. Introduction to Photojournalism, under the category of personality portrait of someone at work.

Photo: Kristie Guldner

Electronic journals are available on CIC Web site

The Committee on Institutional Cooperation (CIC) Electronic Journals Collection (EJC) has launched a prototype electronic journal management system.

The CIC is the academic consortium of the members of the Big Ten athletic conference and the University of Chicago.

The collection aims to be an authoritative source of electronic research and academic serial publications — incorporating all freely distributed scholarly electronic journals available online. The CIC-EJC serves as the electronic journal collection for the libraries of the CIC member universities. The collection is fully cataloged by the CIC member libraries, and records are contributed to the international bibliographic database known as OCLC.

The collection will eventually include electronic serials licensed only to the CIC member universities, and access to licensed publications may be restricted under the terms of the applicable license agreements.

Although some of the journals targeted for inclusion in the CIC-EJC have been part of the CINET E-Serials Archive for some time, the CIC-EJC may contain titles not available in the E-Serials Archive. The E-Serials Archive will contain titles not available in the CIC-EJC. The content of the CIC-EJC will be continually monitored and managed by key librarians at the CIC member universities.

For more information, see <http://www.cic.net/cic/cic.html>.

For the Record

In the Oct. 19 United Way insert, the man in the photograph on page 12 should have been identified as Cregg Sheaffer.

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November 2, 1995

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Celebrating heritage

Tomas Arciniega, president of California State University-Bakersfield, gives the keynote address that kicked off the University's first celebration of Hispanic Heritage Month. November is filled with events that highlight the rich culture of Hispanics around the world. For more information on scheduled events, contact Latisha Mojica-Mejias at (814) 865-1764.

Photo: Greg Grieco

Faculty against lowering credit requirements

Cutting the number of credits required for four- and five-year programs and reducing the general education requirement by 10 credits met with strong opposition Oct. 24 at a forensic session of the University Faculty Senate.

Senate Chair Peter Jurs said the intent of the 45-minute forensic session was "not to have a vote of any kind, but to have an airing of the issues." But of the more than 20 faculty members who spoke during the session, most opposed the two recommendations, which came from a subgroup of the Commission for Undergraduate Education.

See "Senate" on page 5

University plays major role in state's economy

Penn State can be a key to economic development for both Erie and Pennsylvania, but to achieve this the University needs additional financial help from the state's residents, President Graham B. Spanier said during an Erie Rotary luncheon Oct. 25. The visit was part of his continuing yearlong tour of the state that will take him to every community where Penn State is located.

The state's flagging financial support, which has placed Pennsylvania 47th among the 50 states in per capita support of higher education, is putting Penn State's mission in jeopardy, Dr. Spanier said. Only 17 percent of Penn

See "Behrend visit" on page 3

Child Development Lab earns its stripes

The Child Development Laboratory (CDL) in the College of Health and Human Development has been accredited by the National Academy of Early Childhood Programs (NAEYC).

Accreditation by the academy is an indicator of a program's quality; it says that the program meets national quality standards. The NAEYC standards were developed over a three-year period with input from educators and administrators from across the country.

The CDL has been providing day care and education to young children

for 66 years. Located in Henderson Building South on the University Park Campus, it currently serves 38 children from ages 3 to 6. Next year it will expand to serve infants and toddlers as well.

To become accredited, the CDL needed to meet a variety of strict criteria related to providing a developmentally appropriate program for preschool-age children. The criteria range from having a well-qualified and trained staff to meeting stringent health and safety standards. In addition, the

program must provide opportunities for parent involvement.

Accreditation included an extensive self-study by CDL staff and parents; an on-site study of the program by professional validators, and a final review by a three-member panel of commissioners who are experts in early childhood education.

The academy accredited its first program in 1985; today there are more than 2,500 NAEYC-accredited programs throughout the country.

Inside



Nature at its peskiest

In an attempt to help people better understand the bug world, the Department of Entomology is sponsoring several "insect events." See story on Arts page 6.



A weed-inspired fairway

Turfgrass scientist David Huff thinks weeds may be the answer to a better golf course. For more details, see the research story on page 11.

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DIVERSITY

Sloan Foundation gives \$30,000 Officer Grant to WISE Institute

Researchers working in the Women in the Sciences and Engineering Institute (WISE) have received a \$30,000 Officer Grant from the Alfred P. Sloan Foundation to assess retention rates, perceptions, the climate and the mentoring situation for Penn State women in the sciences and engineering.

An Officer Grant allows preliminary preparation for larger programs. In this case, the final goal is to develop a series of climate/diversity training workshops aimed at faculty, staff and graduate students. These workshops should be scheduled by academic departments.

"Before this type of workshop can be developed, we need to do some research on current climate and retention,"

Londa Schiebinger, WISE Institute director and professor of history and women's studies, said.

Dr. Schiebinger and Mary Jane Irwin, professor of computer science and engineering, are co-principal investigators for the project.

Dr. Schiebinger said the participation of women students in many of the science and engineering disciplines at Penn State is similar to national trends. The proportion of women decreases as one moves from bachelor's to master's and then to Ph.D. levels. The pattern continues at the faculty level and into upper administration.

Data on retention from the last five years will be collected and analyzed

using a program developed by Walt Beatty, director of administrative information systems in the College of Engineering, to assess undergraduate retention. Twenty-two focus groups will provide insight into climate issues, challenges to women in the sciences and engineering on campus and mentoring possibilities. Another area to be explored under this grant is possible mentoring activities for women graduate students and faculty.

"Once we have the information outlined in this grant, we can look toward setting up a larger program of climate/diversity workshops designed specifically to meet the needs of faculty, students and staff at Penn State," Dr. Schiebinger said.

Nominations for mentor sought

Nominations and applications are being sought for the part-time position of senior faculty mentor in the Center for Minority Graduate Opportunities and Faculty Development in the Graduate School.

Candidates should be a full professor with a record of scholarly accomplishments in their particular field of research; should possess a strong commitment to diversity; and should demonstrate creative leadership and effective communication skills.

The individual selected as senior faculty mentor will work with departments to ensure the development of junior faculty. The individual will play a critical role among the Graduate School staff and will be involved in the daily operations of the Center for Minority Graduate Opportunities and Faculty Development.

Applications will be reviewed beginning Nov. 10, and continue until the position is filled. Nominations and applications, including a current curriculum vitae and the names of five references, should be submitted to chair of senior faculty mentor search: Harold Cheatham, 327 Cedar Building, University Park, Pa.

Hispanic Heritage workshop in Harrisburg

"Getting to Know Your Latino Neighbors" will be the topic of a Nov. 15 workshop at the Penn State Harrisburg Eastgate Center, presented in conjunction with Hispanic Heritage Month.

Stanley J. Nowak Jr., associate professor of Spanish, humanities and

social science and the executive director of the Center for Intercultural Community Building at the Penn State Allentown Campus, will oversee discussions on such topics as Latino/Hispanic culture, cultural values, strategies for personal development through housing and intercultural com-

munication skills and the role of diversity in addressing the future.

The workshop, which runs from 1-3 p.m. at the center at 1010 N. Seventh St., is free to the public, but requires registration. For a full listing on the day's events and registration information, contact the center at (717) 772-3590.



BOOK SHELF

James G. Beierlein, professor of agricultural economics, is co-editor of a new college text titled *Cases in Agribusiness Management*. This is the second edition of this popular book of agribusiness case studies that is used in problem-based education courses. The book is published by Gorsuch Scarisbrick of Scottsdale, Arizona. The other editors are George Saperich (Arizona State), Michael Woolverton (American Graduate School of International Management) and David Hahn (Ohio State).

Austin J. Jaffe, the Philip H. Siegel Professor of business administration, is the co-author of one new book and the editor of a second. The *Smeal College of Business Administration*

faculty member co-wrote *Property Rights and Privatization in the Baltic Countries* published by Nordisk Minuterrad in Copenhagen, Denmark with colleagues from Uppsala University and the University of Stockholm, both in Sweden. The book contains an analysis of property rights issues in housing and land in Estonia, Latvia and Lithuania. It is the first comprehensive study of legal and economic issues affecting the housing and real estate markets in these countries since the breakup of the former Soviet Union. Dr. Jaffe also is the editor of *The Real Estate Reader*, released by Blackwell Publishers, a collection of articles which capture the most recent issues and debates in the real estate field. The book is intended as a supplement for

real estate principles courses at colleges and universities.

E. Willard Miller, professor emeritus of geography, and Ruby M. Miller, retired associate librarian, are co-authors of *America's International Trade*, published by ABC/CLIO, Santa Barbara, Calif.

The book begins with an analysis of the evolution of the international trade policies of the nation, followed by chapters that provide information on a variety of topics. A chronology lists important data in the evolution of national and international laws and regulations, and a listing of public and private organizations at both national and international levels provides information on trade relationships. A selected bibliography of annotated books and more than 1,000 articles from journals and government publications are provided. The book concludes with an annotated list of films and a glossary.

Robert A. Novack, associate professor of business logistics in The Smeal College of Business Administration, is the co-author of *Creating Logistics*

Value: Themes for the Future, published by the Council of Logistics Management.

The book, written with faculty members from the University of Tennessee and Michigan State, offers many insights based on case studies of firms which are leaders in the practice of logistics. Related are innovative approaches to measuring logistics operations costs, logistics service, transaction costs and revenue, and channel satisfaction.

A new textbook, *An Introduction to Old Russian*, by William R. Schmalstieg, Edwin Erle Sparks Professor of Slavic Languages, has been published by the Institute for the Study of Man (Washington, D.C.).

This is the first English language textbook of medieval Russian with glossary and integrated reading selections. Included is a selection from the Old Russian chronicles relating how Prince Vladimir accepted Christianity rather than Islam because, in the prince's words, "Drinking is the joy of the Russes. We cannot exist without that pleasure."

University can play key role in state's economy

Behrend visit

continued from page 1

State's budget comes from legislative appropriations.

"An investment in Penn State and in higher education on the part of the people of Pennsylvania will have a direct payoff," he said.

Dr. Spanier's day at Penn State Erie, The Behrend College — the fourth stop on his 24-site tour — included not only the luncheon at the Rotary Club, but also a campus tour, a meeting with faculty and staff, and a "Coffee with the Provost" for students, hosted by Provost John Lilley.

During the Rotary address, Dr. Spanier said Penn State-Behrend and the University as a whole are excellent resources for the state. He cited the University's Research Park as one example of how the University is aiding the state's economy. Penn State-Behrend's newly announced knowledge park is another such example, he said.

He encouraged Rotary members to use the expertise and research opportunities provided by Penn State, with special emphasis on Penn State-Behrend.

"Penn State-Behrend is one of the jewels of the Penn State system," Dr. Spanier said.

"John Lilley has all kinds of expertise on his staff, and if he doesn't have the answer here, he knows where to get the information elsewhere within the University."

The president was also asked about the detailed study under way for the Commonwealth Educational System, Penn State-Behrend and Penn State Harrisburg and how that study would impact the Erie campus. As he explained, Penn State-Behrend serves as a model for developing strong partnerships with industry to enhance economic development. And,

that growth will continue for the college.

In addition, he told the audience about the newly designed "Honors House" at Penn State-Behrend, which is slated for construction in the spring. The design is so attractive, he said, that the plans might be used as a model for future housing elsewhere.

At the faculty and staff meeting, discussions centered on the college's continued growth and funding. Dr. Spanier responded that he is "incredibly optimistic" about Penn State-Behrend's future. He believes that while Behrend continues to grow and move ahead, it will still attract excellent faculty and quality students.

The president's day ended with a special celebration honoring James O. Benson, Penn State-Behrend's 1995 Alumni Fellow.



Meeting the man in charge

Students at Penn State Erie, The Behrend College had the opportunity to talk with President Graham Spanier (second from right), as well as with John Brighton, executive vice president and provost (center) and John Lilley, provost and dean of Penn State-Behrend (right).

Photo: Bernik Photography of Erie

The state's flagging financial support, which has placed Pennsylvania 47th among the 50 states in per capita support of higher education, is putting Penn State's mission in jeopardy.

November stacks up as busy tour month

Dr. Spanier's statewide tour heats up in November with stops planned Nov. 8 at the Penn State Hazleton Campus; Nov. 9 at the Schuylkill Campus; Nov. 21 at the Altoona Campus; and a Nov. 29 event in the Philadelphia region.

As part of his Hazleton tour, the president will address a joint meeting of the Hazleton Rotary and Kiwanis; the Hazleton and Mountain City Lions clubs, the campus advisory board and the board of directors of the Greater Hazleton Chamber of Commerce, Leadership Hazleton and the CAN DO industrial development corporation.

On the Schuylkill tour, Dr. Spanier will address the Chamber of Commerce, travel to Pottsville Area High School, tour the Yuengling Brewery and meet faculty, staff, students, alumni and donors.

FAST FACTS ABOUT HAZLETON CAMPUS

Founded: 1934

Service area: Southern Luzerne, northern Schuylkill, Carbon, Columbia and Montour counties

CEO: James J. Staudenmeier

Employees: 130 full-time, approximately 20 part-time employees

Enrollment: 1,316

Key programs: The sophomore center for communications, one of two such campuses. Offers associate degrees in physical therapist assistant, medical laboratory technology, letters, arts and sciences, business, electrical engineering technology, mechanical engineering technology; also offers the first two years of most of the 180 baccalaureate degrees offered by Penn State.

FAST FACTS ABOUT SCHUYLKILL CAMPUS

Founded: 1934

Service area: Schuylkill, Northumberland and Montour counties

CEO: Wayne D. Lammie

Employees: 75 full-time, 33 part-time employees

Enrollment: 1,041

Key programs: Offers associate degrees in business administration, computer science, human development and family studies, radiologic technology, electrical engineering and letters, arts and sciences; also offers the first two years of most of the 180 baccalaureate degrees offered by Penn State. Schuylkill is the diploma school of nursing services for Pottsville Hospital and Geisinger Medical Center schools of nursing.

Awards

McKeesport CEO honored for achievement

JoAnne E. Burley, CEO of the Penn State McKeesport Campus, has received a 1995 Black Achievers Award.

The 21st Annual Salute to Black Achievers program, sponsored by *Black Opinion* magazine and publisher Luther Sewell, honors African Americans who have achieved in their field and live and work within the *Black Opinion* marketing area. Other criteria included achievement within an organization and notable contributions in their field and their community.

This year's salute highlighted African Americans who achieved through equal opportunities. The program's goal is to inspire and motivate others to take advantage of equal opportunities in education and employment.

Dr. Burley became CEO of the McKeesport Campus in July 1992. As chief administrator, she oversees an approximate annual budget of \$4.8 million.

A native of Pittsburgh, she obtained a bachelor of science degree in elementary education from Penn



JoAnne E. Burley

State in 1964, a master of arts in education from Fairfield University in 1971, and a doctor of philosophy in language communications with a minor in education research from the University of Pittsburgh in 1980. She attended Harvard University for post-doctoral work on adult education in 1988.

Dr. Burley has served as a consultant and trainer for the state Department of Education, numerous colleges, universities and school districts. She has authored and co-authored many publica-

tions, including the textbook *Perspectives: From Adult Literacy to Continuing Education*.

She is an active member in several national and international professional organizations. Locally, she serves on the boards of directors of the United Way of Allegheny County, Mr. Ararat Community Activity Center, the Lemington Center, the American Wind Symphony, the Mon-Yough Chamber of Commerce and ComFAC 21. She also serves on the PNC Bank Urban Council Advisory Board and the Allegheny Regional Asset District Advisory Board. She is a trustee for the Carnegie Library.

Dr. Burley is credited with developing the Chatham College Adult Literacy Program in Pittsburgh. She served as assistant vice president for academic affairs/special programs at Chatham from 1986 to 1992. From 1984-85, she served as associate professor of education and associate director at the Chatham College Center for Professional Development.

DuBois Alumni Society names three outstanding alumni for 1995

The Penn State DuBois Alumni Society honored three former students by naming them outstanding alumni of the campus for 1995.

Named Outstanding Alumnus was John E. Whitesell, vice president, international sales administration, Warner Bros. Inc. of Burbank, Calif.

Charles A. Wurster, an economic development specialist with the Capital Region Economic Development Corporation of Camp Hill, Pa., and Richard M. Smith, an assistant professor of business administration at the DuBois Campus, share this year's Outstanding Young Alumni Award.

Both awards are given annually by the Alumni Society to recognize and honor alumni whose qualities of leadership and citizenship exemplify the objectives of Penn State. In addition, the Outstanding Young Alumni Award winner must have completed studies in the past 10 years and have demonstrated early career success.

Mr. Whitesell attended DuBois Campus from 1958-1960 and completed his B.A. in theatre arts at the University Park Campus in 1962.

Mr. Whitesell is a member of the Penn State Alumni Society and the L.A. Chapter of the Alumni Society. He serves on the boards of directors of Mastermedia International Inc., and the Educational Materials Producers Council. He also holds memberships (past and present) in the Motion Picture Export Association of America; the National Entertainment Conference; the National Association of Media Editors; the Academy of Television Arts and Sciences; and the National Audio-Visual Association.

In addition to his professional associations, he has been honored by the Department of Defense, Armed Forces Radio and Television Service.

For the second time in three years, the Outstanding Young Alumni voting resulted in a tie, this year between Charles A. Wurster of Camp Hill and Richard M. Smith of Johnsbury.

Having first attended DuBois Campus in

1953, after a year Mr. Smith quit to begin working in small business. In 1974, he returned as a full-time student in the business administration curriculum. He was named the Outstanding Business Administration Student in 1976. In 1977, he received a B.S. in accounting.

Mr. Smith initially worked as a C.P.A. and in 1981 joined the DuBois Campus business administration faculty and has since risen to the academic rank of assistant professor. In 1986, he received the Professor of the Year Award.

In addition to his bachelor's degree, Mr. Smith earned an MBA from Penn State and holds certification as both a public accountant and a management accountant.

At Penn State, he is a faculty senator, the college representative for The Smell College of Business Administration, program leader for the associate degree in business administration and chair-elect of the Faculty Advisory Committee of the Commonwealth Educational System.

Mr. Wurster attended DuBois Campus from 1987-89 and completed a degree in public service, with distinction, in 1991. He received his MBA with majors in finance and economics from Duquesne University in 1992.

As a recently appointed economic development specialist with the Capital Region Economic Development Corp., he is responsible for the economic development financing needs of manufacturing and warehouse businesses in Perry, Dauphin and Cumberland counties. Before attending graduate school, he was a staff member of the Clearfield County Industrial Development Authority as a development associate.

He holds memberships in Omicron Delta Kappa and Mortar Board leadership honor societies and in Phi Kappa Phi honor society. His awards include the Eric A. and Josephine Walker Award, the Helen Eakin Eisenhower Memorial Scholarship and membership in the National Residence Hall Honorary.

Professor cited for outstanding contributions

Anthony R. D'Augelli, professor of human development, was awarded the 1995 Outstanding Achievement Award by the American Psychological Association's Committee on Lesbian and Gay Concerns.

The award honors psychologists who have made significant contributions to encouraging research in areas relevant to lesbians, gay men, and lesbian and gay youth.

Dr. D'Augelli has written more than 100 publications in lifespan development, lesbian and gay issues in rural communities, and the consequences of homophobia and anti-gay violence. He also works with community psychologists, educating them about lesbian, gay and bisexual concerns.

He helped initiate Penn State's sexual orientation non-discrimination policy; has created and sponsored lecture series on lesbian and gay lives; and has developed related courses on lesbian, gay and bisexual issues.

Professor named Fellow of American Physical Society

Phil Morris, Boeing Professor of aerospace engineering, has been named a Fellow of the American Physical Society in recognition of his "contributions to the aerodynamics and stability of supersonic jets, the hydrodynamic stability of compliant wall boundary layers, and the modeling of large scale structures in turbulent free shear flows."

Dr. Morris, director of Computational Fluid Dynamics Studies in the College of Engineering, is an expert in fluid dynamics, turbulence modeling, aerodynamics, hydrodynamic stability and numerical methods.

Election to APS fellowship is limited to not more than one half of one percent of the membership of each unit and is recognition of outstanding contributions to physics.

Math professor shares inaugural scientific computing prize

Jinchao Xu, professor of mathematics, has been named a winner of the inaugural Feng Kang Prize of Scientific Computing. Dr. Xu shares this honor with two distinguished Chinese mathematicians, Chi-Wang Shu of Brown University and Ya-Xiang Yuan of the Chinese Academy of Science, for their significant contributions in computation fluid dynamics, multilevel and domain decomposition methods, and optimization, respectively.

The Feng Kang Prize of Scientific Computing is awarded in memory of the contributions of the late Professor Feng Kang to computational mathematics in China. Young Chinese scientists in China or abroad who are working in the fields of scientific and engineering computation are eligible to receive the prize.

Appointments

University Health Services hires nurse practitioners

Kimberly Handel and Tina Saddler have been hired as nurse practitioners in the General Medicine Department of University Health Services.

Ms. Handel comes to the University from St. Anthony's Hospital in Westminster, Colo., where she worked as hospital manager. In her duties, she was responsible for providing clinical guidance and management of personnel accountable to nursing services. Before that, Ms. Handel worked as a registered nurse in hospitals in Colorado and Delaware. She achieved a B.S. in nursing from Indiana University of Pennsylvania and an M.S. as an adjunct nurse practitioner from the University of Colorado Health Sciences Center in 1995.



Kimberly Handel

Ms. Saddler also is a recent arrival to the area, having relocated with her husband from Syracuse, N.Y., where she worked as a nurse practitioner in the Syracuse Community Health Center's Urgent Care Clinic. Before that, she worked as a registered nurse providing home health care to families and family-focused care for chronic illness management at home. In addition, Ms. Saddler has worked as a traveling registered nurse, providing supplementary staffing to various hospitals across the country. She received her B.S. in nursing from SUNY College at Brockport, and her M.S. as family nurse practitioner from Binghamton University in 1994.

In their positions at University Health Services, both Ms. Handel and Ms. Saddler will provide comprehensive health care services to Penn State's student population.

Tina Saddler

Associate director of development joins staff of College of Arts and Architecture

Bonnie S. Marshall has been named associate director of development for the College of Arts and Architecture.

In her new position, Ms. Marshall is responsible for the coordination of fund raising for the College of Arts and Architecture Center for the Performing Arts, Pennsylvania Center Stage, Palmer Museum of Art and Music at Penn's Woods, as well as the development of major gift prospects for the academic programs of the college.

Before coming to Penn State, Ms. Marshall spent seven years as the director of development for Centre Community Hospital. While in that position, she developed and implemented both the hospital's annual fund program and planned giving program. She also initiated a capital campaign planning process for the facility. In September, she was awarded the certified level in the Association for Healthcare Philanthropy at the international education conference.

Her background also includes extensive experience in fund raising on behalf of the arts. Between 1988 and 1993, she established and provided contract fundraising services to the Blair County Arts Foundation and the Pennsylvania Local Arts Network. From 1985 to 1987 she served as the finance coordinator and fund-raiser for the Central Pennsylvania Festival of the Arts. Between 1987 and 1990 Ms. Marshall held the offices of treasurer, vice president and president of the Central Pennsylvania Festival of the Arts.

She has served as a volunteer on the advisory committee of the College of Arts and Architecture Center for the Performing Arts; the board of directors of the Nittany Valley Symphony and as an ambassador for Pennsylvania Centre Stage. She is a past president of the Penn State Liberal Arts Alumni Society.

Ms. Marshall holds a bachelor of arts and a master's equivalency certificate from Penn State.

Hershey Medical Center has new pain management center

The knowledge that a loved one has terminal cancer can be devastating. But it can be even more traumatic if you watch that loved one suffering from unremitting pain. That is often the case at the end stages of cancer, but it doesn't have to be.

In response to recent findings that nearly 50 percent of cancer patients in developed countries suffer from unrelieved pain, the Department of Anesthesia at The Milton S. Hershey Medical Center has established the Pain Management and Palliative Care Center under the direction of Dr. Marc B. Hahn, associate professor of anesthesia.

According to Dr. Hahn, "the palliative care service at The Hershey Medical Center can improve the quality of life for terminally ill patients and their families by optimizing pain and symptom management."

Getting patients back to their home environment is the primary goal of the palliative care service. However, a four-bed inpatient unit recently opened for patients who need the special skills and environment of a palliative care unit either for respite care or symptom control, with eventual return to their homes.

It is the only hospital-based unit of its kind in the area. However, Hershey also provides a formal palliative care consultation service that is helping its medical staff, patients and their families with pain and symptom management in acute care wards and on an outpatient basis.

For more information about the Pain Management and Palliative Care Center, call (717) 531-6834.

Senate

continued from page 1

The group's report included a total of eight recommendations, with the intent of "simplifying the curriculum, establishing a common core enhanced by interdisciplinary and collaborative course development, and elevating the academic expectations of these courses."

But the session focused only on the group's first two recommendations. These called for setting limits of 120 credits for any four-year course of study and 150 credits for any five-year programs, and cutting from 46 to 36 credits the requirement for general education, which includes courses in the sciences, social and behavioral sciences, arts and humanities. Minimum credit requirements are currently near 140 in many programs.

James M. Rambeau, associate dean for undergraduate education and chair of the working group that developed the recommendations, said that one of the group's aims was to restructure and simplify the general education program. "There's nothing magical about 36 or 120, other than it's something to aim at," Dr. Rambeau said.

While roughly only 33 percent of Penn State students graduate within four years, Dr. Rambeau said — 10 points under the national average of 43 percent — University program information indicates that most baccalaureate programs are eight-semester (four-year) programs.

If it is an important goal for a student to graduate in four years, Dr. Rambeau said, "we want to make that possible. If not, let's not pretend that students can do (graduate in four years)."

Some faculty members addressed the recommendations' intent to ensure that students could graduate in four years and challenged the assumption that higher credit limits keep students in college longer than four years.

They said that for good and bad reasons — such as changes in majors, remedial courses, co-op programs, work and the misuse or overuse of the late-drop policy — many students take longer than four years to graduate. However, said

Robert Pangborn, associate dean of the College of Engineering, there is "no correlation" between graduation times and credit requirements for engineering majors.

■ Other faculty comments were:

■ Individual colleges and departments should be allowed to set their own credit requirements. A "one-size-fits-all" approach will not work.

■ Making 120 credits the minimum for four-year courses would cut the quality of some programs, hit senior courses the hardest, and "dumb down" some degrees.

■ A 120-credit limit would interfere with state requirements for college students aiming at high school teaching careers and jeopardize the accreditation of some colleges or departments.

■ The recommendations would restrict student choices.

■ It's a move in the wrong direction to cut general education requirements in the midst of a "knowledge explosion."

■ The working group's case for credit limits is "weak and unsubstantiated."

In other business, the Senate heard from President Graham B. Spanier, who addressed several issues, including recent enrollment increases, the upcoming state budget request, an emerging proposal for a life sciences "consortium," the study of Commonwealth Campuses and other Penn State locations announced earlier this month, and a state solent committee's hearings into higher education practices.

The Senate also clarified policy on transferring credits by validation from other institutions and heard informational reports on the Research Park, academic eligibility and athletic scholarships, and faculty outreach activities.

The Senate's next meeting will be at 1:30 p.m. Tuesday, Dec. 5, in Room 112 Kern Building on the University Park Campus.

— Alan Janesch

The ARTS

AT PENN STATE

Theatrical season opens

"Heaven Valley," the fall production of Penn State-Erie, The Behrend College, Studio Theatre, will open at 8 p.m. Friday, Nov. 3.

Directed by Tony Elliot, theater director, the play is set in 19th century rural Appalachia. A bishop, an ex-convict janitor and a schoolboy venture into an obscure valley, each with his own agenda.

"Heaven Valley" will be presented at 8 p.m. Friday, Nov. 3; Saturday, Nov. 4; Thursday, Nov. 9; Friday, Nov. 10; and Saturday, Nov. 11. Afternoon performances will be held on Sunday, Nov. 5, and Sunday, Nov. 12 at 2:30 p.m.

Reservations for limited seating are available by calling (814) 898-6016. Admission is \$5 for the general public; \$3 for students.

Coffeeshouse entertainer will perform in Erie Nov. 3

Barbara Bailey Hutchison, four-time winner of the Coffeeshouse Entertainer of the Year Award, will perform at Bruno's Night Club on the campus of Penn State Erie, The Behrend College, at 8:30 p.m. Friday, Nov. 3. Her show is free to the public.

Ms. Hutchison's appearance is part of the Penn State-Behrend Cultural and Performing Arts Series, partially funded by the Mary Behrend Cultural Fund.

'God's Trombones'

James Weldon Johnson's classic "God's Trombones" will be performed by the College of Arts and Architecture Department of Theatre Arts and Voices of Joy at 5 p.m. Sunday, Nov. 5, in the Paul Robeson Cultural Center on the University Park Campus.

The performance will be directed by Charles Dumas, visiting professor of theatre, and will feature Cynthia Baldessare, Carlton Currington, Carla Hargrove, Keegan-Michael Key, Allesandra Paloschi and Greg Thomas.

"God's Trombones" is a series of original sermons based on authentic African-American traditional preaching collected and edited by James Weldon Johnson in the 1920s.

The Paul Robeson Center is co-sponsor of the event. The performance is free to the public.

Brazilian film

Penn State Erie, The Behrend College, presents *Dona Flor and Her Two Hus-*



Award-winning singer Barbara Bailey Hutchison will perform at Bruno's Night Club at Penn State Erie, The Behrend College, at 8:30 p.m. Friday, Nov. 3.

bands, the third in its four-part International Film Series, at 7 p.m. Monday, Nov. 6, in Reed Lecture Hall, Reed Union Building. The event is free to the public.

Bug art and lecture

Birds may do it. Bees may do it. Even educated fleas may do it, but chances are humans will rarely see an insect do any type of behavior without the help of nature photographers like Scott Camazine, assistant professor of entomology.

Through Nov. 14, an exhibit of Dr. Camazine's insect and nature photography is on display in the research area of the Hetzel Union Building on the University Park Campus. The exhibit is open the same hours as the HUB, from 7 a.m. to midnight Monday through Friday, and from 7 a.m. to 8 p.m., Saturday and Sunday.

Dr. Camazine will display about 30 images of small creatures ranging from a close-up of a grasshopper to a dew-laden spider and its eight-legged proprietor, to a teeming swarm of honey bees. Dr. Camazine has published two books of nature essays illustrated with his own photographs and has had his photos published in a variety of magazines, including *Life*.

The exhibit is one of a series of "insect events" sponsored by the Department of Entomology. In addition to the exhibit, Dr. Camazine will

also host the first of 10 "Catch the Bug" insect walks, talks and activities. The series will illuminate such topics as Lyme disease, winter bug watching and pesticide alternatives. Dr. Camazine's talk, titled "Insect Safaris," will focus on insect photography. The talk is at 7 p.m. Wednesday, Nov. 8, in room 101 in the Agricultural Sciences and Industries Building on the University Park Campus.

For more information about the entomology series, call (814) 865-1895.

Odyssey on WPSU

Where a woman's social roles end and her "self" begins is the topic of discussion on the next Odyssey Through Literature broadcast, "A Defining Kind of Tension."

Historian and biographer Susan Albritton of Susquehanna University discusses the lives of 19th-century businesswomen and their struggles to define a sense of self.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Wednesdays at 8 p.m. on WPSU, 91.5 FM.

Hi-Lo's set to perform

The Hi-Lo's, a chamber ensemble from the Penn State Glee Club, will perform at the Bach's Lunch concert series at 12:10 p.m. Thursday, Nov. 9, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The 12 singers in the Hi-Lo's will perform "The Grooves of Academe," a piece written by Bruce Trinkle, the director of the Hi-Lo's and the Penn State Glee Club. "The Grooves of Academe" are settings of humorous texts from *Froth*, the Penn State humor magazine.

The audience is invited to take a brown-bag lunch to eat in the Roy and Agnes Wilkins Lounge after the performance. Coffee and tea will be provided. The concert is free to the public.

Pattee painting exhibit

An exhibition of current oil paintings by Eric Armusik titled "Why Me?" is on display until Nov. 30 in Pattee Library's West Lobby Gallery.

The show will include three large-scale paintings representing Mr. Armusik's interest in self-portraiture. He uses a series of tiny figures of self-portraits and creates a pattern which covers the entire canvas. He also

expresses how self-portraiture can be used in fantasy and in art history. In addition, his works pay homage to 17th century Baroque painting.

HUB Art Alley artist

The HUB's Art Alley Cases will feature, artist and wood burner Sam Chaar until Dec. 10.

Mr. Chaar creates portraits, still life, and architectural scenes on each wooden canvas. In the grains of wood, "my artwork reflects the careful designs and sensitive touch needed for wood burning skill. The degree to which the illusion succeeds depends in large part on the artist's powers of observation."

Mr. Chaar is pursuing a Ph.D. in hotel, restaurant, and recreation management at Penn State.

The HUB's Art Alley Cases are on the first floor of the Hetzel Union Building on the University Park Campus and are open during all open HUB hours.

AIDS awareness project

The HUB's Art Alley Panels will feature "This Is Our Yard," an AIDS awareness project, through Dec. 10 on the University Park Campus.

"This Is Our Yard" is a community-based portrait project that brings a human face, along with a personal voice, to the AIDS epidemic. Combining the words and portraits of Orange County California residents whose lives have been touched by AIDS, "This Is Our Yard" documents the diversity of personal stories among people with AIDS, those who are HIV affected, family members, lovers, caregivers and service providers.

Artists Jerry McGrath and Mary-Linn Hughes have collaborated with volunteer participants to create these large format, color photographs.

The HUB's Art Alley Panels are on the first floor of the HUB and are open during all open HUB hours.

Special exhibits at Kern

The Kern Exhibition Area on the University Park Campus will feature baskets by Sherry Oberholzer and the jewelry of Denise Arieu through Dec. 12.

Ms. Oberholzer's baskets, in traditional colonial form, are made of such materials as oak handles, naturally produced dyes and ash reeds. She teaches basket weaving in the Kutztown area and has an inventory of more than 70 styles of baskets.

Ms. Arieu's jewelry reflects the mood of the Southwest and has been exhibited here in previous years. Each piece of jewelry is made of silver, brass or copper and is created with precious and semi-precious gems.

The Kern Exhibition Area is on the first floor of the Kern Graduate Building. Exhibition hours are 8 a.m. to 11 p.m. Monday through Friday; 10 a.m. to 11 p.m. on Saturday; and noon to 11 p.m. on Sunday.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, November 2

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel.

■ Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Lorie Mills on "An Introduction to Sleeping Beauties."

Shaver's Creek, 7 p.m. Species Extinction: Causes & Consequences. Call (814) 865-2000.

Owida Lecture in Journalism Ethics, 8 p.m., Carnegie Cinema. Phyllis Karnis on "Ethical Dilemmas and the New Civic Journalism."

University Resident Theatre Company, 8 p.m., The Playhouse. Measure for Measure by William Shakespeare. Through Nov. 4. For tickets call (814) 865-0255.

Friday, November 3

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Lorie Mills on "An Introduction to Sleeping Beauties."

Center for the Performing Arts, 8 p.m., Schwartz Auditorium. Barry Snyder, pianist and chamber musician.

Saturday, November 4

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. David Grainger on "An Introduction to Sleeping Beauties."

Sunday, November 5

■ Film, 2 p.m., Palmer Lipcon Auditorium. Masai Manhood.

■ Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. Le Cirque Eloize.

Performance, 5 p.m., Paul Robeson Cultural Center. "God's Trombones," by Theatre Arts and Voices of Joy.

Monday, November 6

■ Archaeological Institute of America, 8 p.m., 101 Kern Bldg. John R. Hale on "Identifying the Race Warriors: The Discovery of Two Naval Heroes from the Golden Age of Greece."

Center for Women Students, 8 p.m., HUB Ballroom. David E. Grine will present a mock acquaintance rape trial.

Tuesday, November 7

Shaver's Creek, 12:30 p.m. Junior Nature Explorers. Continues on Nov. 9. Call (814) 865-2000.

University Libraries, 1:30 p.m., C401 Pattee Library. Geoffrey E. Cleave on "Future Roles for Academic Libraries."

Political Science, 4 p.m., 101 Kern. Walter Dean Burnham on "The Eclipse of the State and the End of the 20th Century."

Wednesday, November 8

Student Affairs, noon, Main Lounge. HUB. Janice Gainer on "I Want to Make Money as an Artist While I'm Alive. I Don't Want to Die and Have Somebody Make \$48 Million Off My Fingernails, Like Van Gogh." For Example.

Center for Women Students, noon, 120 Bouck Bldg. Patricia Johnstone on "Male/Female Relationships."

Women's Studies, 4 p.m., HUB Gallery Lounge. Lynne Goodstein on "The Future of Women's Studies Programs: Vibrant, Interdisciplinary or Planned Obsolescence?"

Agricultural Sciences, 7 p.m., 101 ASI Bldg. Scott Camazine on "Insect Safaris," focus on insect photography.

Panhellenic Women's Awareness, 8 p.m., HUB Ballroom. Jackie Joyner-Kersey, speaker. Free tickets available Nov. 1 at 203B HUB and 102 Bouck.

Thursday, November 9

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The H-Lo's, a chamber ensemble from the Penn State Glee Club. Lecture, 7 p.m., Ballroom C, Nittany Lion Inn. Anita Jones on "Engineering in the Fast Lane."

■ Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Teng-Fin Wang on "An Introduction to Sleeping Beauties."

■ Lecture, 7:30 p.m., Palmer Lipcon Auditorium. Paolo Possiedi on "Leopards at the End of Modernity."

HUB "Distinctive Styles," 8 p.m., HUB Bldg. Jack Gladstone, Montana Blackfish-leader, singer, storyteller.

Friday, November 10

■ Gallery Talk, 11:30 a.m., Christoffers Lobby, Palmer Museum. Jean Cadigan on "An Introduction to Sleeping Beauties."

■ Also, 1 p.m., Lorie Mills on "An Introduction to Sleeping Beauties."

■ Gallery Talk, 3 p.m., Christoffers Lobby, Palmer Museum. Kay Picart on "Asian Art at the Palmer Museum."

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Central Ballet of China. For tickets call (814) 865-0255.

Saturday, November 11

Veterans Day

Gallery Talk, 11:30 p.m., Christoffers Lobby, Palmer Museum. Cheryl Snay on "Looking at You: Portraits at the Palmer Museum."

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Allison Imhof on "An Introduction to Sleeping Beauties."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Jerry Gonzalez and the Fort Apache Band. For tickets call (814) 865-0255.

School of Music, 4 p.m., Recital Hall. Penn State Concert Choir/Chamber Singers. For tickets call (814) 865-0431.

Sunday, November 12

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "African Art at the Palmer Museum."

■ Film, 2 p.m., Palmer Lipcon Auditorium. Masai Manhood.

School of Music, 4 p.m., Recital Hall. Oriana Singers. For tickets call (814) 865-0431.

SEMINARS

Thursday, November 2

Ceramic Science, 11 a.m., 301 Steidle Bldg. Nick Borrelli on "Review of Non-linear Optics of Glasses and Glass-Ceramics."

Computer Science & Engineering, 4 p.m., 302 Pond Lab. D.K. Panda on "Can We Do Better than Unicast Message-Passing in Wormhole-Routed Parallel Systems?"

Friday, November 3

Accounting Research, 3:30 p.m., 333 Beam Bldg. Any Dunbar on "An Analysis of the Flat Tax: Who Wins and Who Loses?"

■ Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Baruch Halpern on "How Large was King David's Empire? An Exercise in Ancient Geography."

Philosophy, 4 p.m., 124 Sparks. Alan Sica on "Weber and the Future of Philosophy."

Saturday, November 4

Choosing the Right Publisher: A Bookseller's Perspective on Academic Publishing, 8 a.m.-5 p.m., Penn State Scanlon. Presenters are Michael Svoboda and Peter J. Potter. To register call (800) 259-TODAY. Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Onville Lavender

on "Viral Evolution as Driven by Host Nutritional Selective Factors."

Monday, November 6

Plant Pathology, 3:30 p.m., 112 Buckhout. Gary Moorman on "The Challenges and Opportunities of Extension Teaching." Food Science, 4:15 p.m., Studio D, Mitchell Bldg. Paul Dimick on "Dry Fractionation of Milk Fat."

Tuesday, November 7

■ Biology, 4 p.m., 8 Mueller Lab. Serban Sarbu on "Creatures from the Black Lagoon: Biology and Geology of the Chemoautotrophic Ecosystem in Movile Cave, Romania."

Wednesday, November 8

Gerontology Center, noon, 101 H&H East. Constance Williams on "Risk Assessment: Mandatory Physician Reporting of Impaired Drivers."

Thursday, November 9

Ceramic Science, 11 a.m., 301 Steidle Bldg. Ahmed Amin on "Pyroelectric Imaging."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Bill Will on "Processors are Getting Faster than Memories are Getting Faster."

Friday, November 10

■ Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. David Webster on "People in Time and Space at a Classic Maya Polity."

Agronomy, 3:35 p.m., 101 ASI. Doug Lind on "Effects of Earthworms on Turfgrass Seed Germination."

CONFERENCES

Thursday, November 2

International Migration and Family Change, 129 attendees. Nittany Lion Inn, Hampton Inn, Holiday Inn. Through Nov. 3.

Pennsylvania School Board Association Technology Conference, 400 attendees. The Penn State Scanlon. Through Nov. 3.

Friday, November 3

Wrestling Coaches Clinic, 60 attendees. Holiday Inn. Through Nov. 4.

Lady Lion Basketball Coaches Clinic, 160 attendees. Holiday Inn. Through Nov. 4.

Saturday, November 4

Infection Control Update for Long-Term-Care, 75 attendees. The Penn State Scanlon.

Choosing the Right Publisher, 60 attendees. The Penn State Scanlon.

When Catastrophe Strikes: The Oklahoma City Bombing, 250 attendees. The Penn State Scanlon.

Monday, November 6

Computer-Based Design for Architects, 25 attendees. The Penn State Scanlon. Through Nov. 7.

HEC RAS, 24 attendees. The Penn State Scanlon. Through Nov. 10.

Tuesday, November 7

NCA Chocolate Handling Workshop, 35 attendees. The Nittany Lion Inn.

Mammalian Cell Culture Methods, 15 attendees. The Nittany Lion Inn. Through Nov. 10.

Penn State Golf Turf Conference, Nittany Lion Inn. Through Nov. 9.

Wednesday, November 8

Hate Groups on Campus, 150 attendees. The Penn State Scanlon.

Central Susquehanna Intermediate Unit, 18 attendees. The Penn State Scanlon. Through Nov. 9.

National Association for Minority Engineers, 30 attendees. The Penn State Scanlon. Through Nov. 10.

Friday, November 10

Pediatric Assessment, 100 attendees. The Penn State Scanlon.

Saturday, November 11

Affirmative Action in Higher Education, 60 attendees. The Penn State Scanlon.

Goat Head Conference, 110 attendees. ASI Bldg.

Sunday, November 12

Second Annual Pennsylvania Reading Recovery Conference, 500 attendees. The Penn State Scanlon. Through Nov. 14.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m. "Performance Today," Mon.-Fri., 9-11 a.m. "All Things Considered," Mon.-Fri., 4-7 p.m.; Sat. & Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m. "Fresh Air with Terry Gross," Mon.-Fri., 7-8 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein," Wed., 8 p.m.

"Car Talk," Fri., 8 p.m. and Sun., 6 p.m. "Living On Earth," Mon., 8 p.m.

"Inside Europe," Sat., 4:30 p.m. "The Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

HUB

Art Alley Cases:

Sam Char, artist and wood burner. Portraits, still life, and architectural scenes on wooden canvases on display through Dec. 10.

Art Alley Panels:

"This Is Our Yard," an AIDS awareness project, through Dec. 10.

Research Area:

Actual and nature photography by Scott Camazine, through Jan. 14, 1996.

Kern Exhibition Area

Bakery by Sherry Oberholzer, through Dec. 12.

Palmer Museum

■ "Sleeping Beauties: African Headdresses from the Jerome L. Joffe Collection at UCLA," through Dec. 3.

"Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10, 1996.

Pattee

Rare Books Room:

"Instructed Eye: Sight and Understanding in Artists' Manuals and Treatises," through Nov. 3.

West Lobby:

Oil paintings by Eric Armusik titled "Why Me?" through Nov. 30.

Zoller Gallery:

"Terrestrial Bodies," through Nov. 5. Features an eclectic group of 13 New York City artists.

"School of Visual Arts Faculty Exhibition," Nov. 11 through Dec. 5.

■ Reflects an international perspective

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Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather—234; Arts Line—345; University Calendar—456.

LECTURES

Political scientist to speak on changing shape of the nation

"The Eclipse of the State and the End of the Twentieth Century," a look at the pressures and changes on the nation and its states since they emerged in the 17th century, will be presented at 4 p.m. Tuesday, Nov. 7, in 101 Kern Graduate Building on the University Park Campus.

Walter Dean Burnham, the Frank C. Erwin Jr. Centennial Chair in government at the University of Texas, will give the free lecture. The lecture focuses on these changes that are progressively overturning the political assumptions and practices from which the modern welfare state was built over the last two generations.

Elected a Fellow of the American Academy of Arts and Sciences, Dr. Burnham was a Fellow of the Center for Advanced Study in the Behavioral Sciences and has received a Guggenheim Fellowship for research. He earned a bachelor of arts degree in 1951 from Johns Hopkins University, a master's degree in 1958 and a doctoral degree in 1962, both from Harvard University. He was also presented an honorary degree from Rutgers University in 1982.

Dr. Burnham is the author or editor of *Politics in the 1990s*, *Democracy in the 1990s* (1986), *The Current Crisis in American Politics*, *American Politics and Public Policy* (1978), *The American Party Systems: Stages Political Development* (1975) and *Politics in America: The Cutting Edge of Change* (1973). His book *Critical Elections and the Main Springs of American Politics* (1970) won the Epstein Award from the American Political Science Association.

His talk is co-sponsored by Phi Beta Kappa and the Department of Political Science.



Walter Dean Burnham

Computer conferencing is topic of Nov. 13 free event

A free teleconference on computer conferencing will be offered to University faculty in Studio D, Mitchell Building, University Park, from 1 to 2:30 p.m. Monday, Nov. 13.

Computer Conferencing: Alternative to Lectures will address computer conferencing as a teaching and learning tool. During the teleconference, participants will visit four different campuses and meet six faculty members who will demonstrate computer conferencing within a variety of courses and student populations. Emphasis will be placed on learner motivation, student interaction, empowerment, and understanding of subject matter.

Computer conferencing tool demonstrations will include E-mail and screen capture software as well as software applications such as Lotus Notes® and First Class®.

The conference is produced by the Institute for Academic Technology at the University of North Carolina and sponsored at Penn State by the Center for Academic Computing, Continuing and Distance Education and Penn State Libraries.

Register for the free teleconference by Nov. 9 by contacting **Danette Yakymac** by e-mail dxy88@psu.edu or by phone at (814) 865-4757.

Comparative literature program continues

The fall 1995 Comparative Literature Lunch Program continues this month and next with the following events, which will be held from 12:15-1:20 p.m. in 101 Kern on the University Park Campus:

— Nov. 6: **Susan Scaff**, assistant professor of comparative literature, will discuss "Thomas Mann and Music";
— Nov. 20: **David Charnay**, associ-

ate professor of English, will talk about "Students' Epistemologies";
— Nov. 27: **Don Kunze**, associate professor of architecture and integrative art, will discuss "The Electronic Text and Comparative Literature"; and
— Dec. 4: "Fox's 'Tall-Tale Heart' in Hawthorne's 'Scarlet Letter,'" will be the topic of **Richard Kopley**, associate professor of English.

Penn author and scholar to discuss media ethics tonight

Phyllis Kaniss, assistant dean at the Annenberg School for Communication at the University of Pennsylvania, will deliver the 1995 N.N. Oweida Lecture in Journalism Ethics. The lecture, titled "Ethical Dilemmas and the New Civic Journalism," will be presented at 8 tonight in the Carnegie Cinema on the University Park Campus.

Dr. Kaniss is a frequent critic of local television news for the *Philadelphia Inquirer*, and her media analysis pieces also have appeared in the *New York Times*, the *American Journalism Review*, and the *Yale Law and Policy Review*. At Penn, she teaches courses on local news and urban politics and directs the undergraduate internship program. Dr. Kaniss received her bachelor's degree from Penn in 1972 and her doctorate in regional science from Cornell University in 1978.

Author of four books, her most recent work, *The Media and the May-*

or's Race: The Failure of Urban Political Reporting (1994), provides a first-hand look at news media coverage of the 1991 Philadelphia mayoral race. As part of her research for the award-winning book, she analyzed newscasts and newspaper stories, talked to the candidates and their staffs, and interviewed reporters from the city's news media to learn how they made their reporting decisions.

The N.N. Oweida Lecture in Journalism Ethics supports an annual lecture by an expert in journalism ethics. It was endowed with a \$10,000 gift from **Margaret L. Oweida** in memory of her husband, **N.N. Oweida**, a surgeon from New Kensington, Pa.

For more information, contact **Christine Templeton**, director of alumni and public relations, at (814) 865-8801. Direct questions via E-mail to fb5@psu.edu.

WISE workshops set for Nov. 19

The second annual "WISE Voices" workshops for women in science and engineering will be held at University Park on Sunday, Nov. 19. The Pennsylvania Space Grant Consortium, a NASA-funded education program, is again sponsoring the event which will be held from 10 a.m. to 3 p.m. at Keller and Mater buildings.

This year's meeting will focus on female graduate students in science and engineering. "Success Strategies for Women Graduate Students in Science and Engineering" is the theme. Workshops will cover topics such as dual-career couples, picking one's institutional battles, finding support networks, and pregnancy leave and other legal issues.

Graduate students, faculty, staff and undergraduates considering graduate school are encouraged to

attend. The cost is \$3 to cover a kick-off brunch and dessert and coffee hour at the end of the day. Because seating is limited, pre-registration is required. Call **Karen Wynn**, at (814) 863-8286 or E-mail to kw88@psu.edu.

Featured speakers will be **Nina Fedesoff**, director of the Biotechnology Institute, who will speak on the defiant success of her one-time colleague, **Barbara McClintock**, the Nobel-Prize winning geneticist, who was denied faculty status for virtually the whole of her career because of her sex.

Fat Shipman, paleo-anthropologist, will speak of her experiences as outsider in the culture of science.

Judy Wakhungu, assistant professor of science, technology and society, will report on the condition of women in less industrialized countries.

Feminist Scholars Series continues Nov. 8

The Women's Studies Program will present a lecture by **Lyne Goodstein** at 4 p.m. Wednesday, Nov. 8, in the HUB Gallery Lounge on the University Park Campus. Her talk, which is part of the Women's Studies 1995-96 Feminist Scholars Series, is titled "The Future of Women's Studies Programs: Vibrant Interdisciplinarity or Planned Obsolescence?"

Dr. Goodstein is professor of administration of justice and women's studies at Penn State, where she has been a faculty member since 1978. She served as director of the Women's Studies Program for nine years, from 1986 to 1995. She is known for her criminal jus-

tice work on correctional institutions, having published two books, *Determinate Sentencing and Imprisonment: The Failure of Reform*, and *The American Prison* and numerous articles on the topic.

More recently, her research has focused on issues of feminism and multiculturalism in higher education. She has published on the women's studies minor, curriculum in women's studies, undergraduate diversity requirements, and teaching criminal justice from a feminist perspective. She currently is engaged in a national study on the nature of women's studies programs.

More Lectures

'Leopardi' is subject on Nov. 9

Paolo Possiedi, professor of Italian at Montclair State University, will give a talk on "Leopardi at the End of Modernity" at 7:30 p.m. Thursday, Nov. 9, in the Palmer Lipson Auditorium of the Palmer Museum of Art on the University Park Campus.

The lecture, sponsored by the Department of Spanish, Italian and Portuguese and the Annual Josephine J. Rhea Lecture in Italian Letters, is open to the public and focuses on Giacomo Leopardi (1798-1837), one of the major Italian poets. Dr. Possiedi's lecture will be a hermeneutical reading of Leopardi's major poem "La ginestra" ("The Broom") against a background of major issues confronting our time.

Dr. Possiedi, a graduate of the University of Padua, Italy, is a well-known Leopardi scholar who has also published extensively on music and drama. He has held teaching positions at New York University, SUNY at Stony Brook, Hunter College CUNY and Vassar.

Harrisburg to host discussion on Beijing conference

"The Beijing Odyssey: One Woman's Account of the Fourth World Conference on Women" will be presented from noon to 1:30 p.m. Tuesday, Nov. 16, at the Penn State Downtown Center in Harrisburg.

Irene Baird, director of the Penn State Harrisburg Women's Enrichment Center, recently returned from a trip to China for the Fourth United Nations Conference on Women. Dr. Baird will describe her experiences and her impressions of the Non-Government Organization Forum held in Huairou and the conference in Beijing. She also will discuss the platform for action that was drafted at the conference which sets forth goals to eliminate discrimination against women in 12 key areas. A question-and-answer period will follow the presentation.

For more information about the lecture, contact the center at (717) 783-0433.

"Buddhism and Abortion" is subject of Nov. 21 lecture

Damien Keown, lecturer in Indian religion in the Department of Historical and Cultural Studies at Goldsmiths College, University of London, will tackle one of the most controversial and divisive moral issues of modern times in his presentation, "Buddhism and Abortion: Is There a 'Middle Way'?" The talk, sponsored by the Religious Studies Program and the East Asian Studies Committee, will be held at 3 p.m. Tuesday, Nov. 21, in 102 Weaver Building on the University Park Campus.

Dr. Keown, author of *The Nature of Buddhist Ethics* (1992), is one of the founding editors of the *Journal of Buddhist Ethics*, the first scholarly electronic journal in the discipline of religious studies. In his most recent book, *Buddhism and Bioethics*, Dr. Keown examines a range of moral issues from the mainstream Buddhist position. His talk will focus on the Buddhist perspective on abortion and the suggestion that Buddhism can offer a pragmatic "middle way" between pro-choice and pro-life extremes. Arguments in favor and against this idea will be explored.

Faculty/Staff Alerts

Recyclables are property of OPP

Recyclable materials once deposited into receptacles in University buildings or left outside for collection, become the property of the Office of Physical Plant. The practice of recycling, when followed properly, helps contain costs. Anyone taking sorted recyclables from campus is in violation of University regulations. The Office of Physical Plant asks for your cooperation in following recycling procedures.

Monitoring radiation

The University's Low Level Radiation Monitoring Laboratory (LLRML) of the Department of Nuclear Engineering is making its radon monitoring services available to faculty, staff and the community surrounding the University Park Campus. Because of geological conditions, much of Centre County is located in a relatively high radon area.

Radon monitoring should be done under closed-house conditions, with all windows and outside doors closed and all exhaust vents unused for 12 hours before the test and throughout the three-day test period. During the test, normal entrance and exit is allowed as long as the doors are not left open for more than a few minutes.

For more information on this or other services offered by LLRML, call (814) 863-2647.

Cart Smart Shopping Tour

Learn how to find your way through the grocery store "market maze" so that you can become adept at choosing the lower-fat items in each aisle. Meets Tuesday, Nov. 14, from 4:30-5:45 p.m. at the snack bar of the North Atherton Street Bi-Food Market. Cost is \$5, reimbursable to HMO participants. To register, contact Jan Hawbaker at 865-3085 or JQH3@psuadmin. Course: WEL 040, Sect. 2.

HRDC courses

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog. Course descriptions can also be found in the catalog.

■ **Coaching For Exceptional Performance (LDR 022)** Meets Tuesday, Nov. 28, 8:15-11:45 a.m. in 319 Rider Building; cost: \$35.

■ **Microsoft Project For Windows (IBM 025)** Meets Tuesday, Nov. 28, 9 a.m.-4 p.m. in Room B Penn State Scenic; cost: \$150.

■ **Facilitator Training I (CQI 005)** Meets Thursday, Nov. 9, 9 a.m.-4 p.m. in 319 Rider Building; cost: none.

■ **Microsoft Project For Windows (IBM 025)** Meets Thursday and Friday, Nov. 30 and Dec. 1, 1-4 p.m. in Room B Penn State Scenic; cost: \$150.

■ **Introduction To Windows 3.1 (IBM 003)** Meets Monday and Wednesday, Dec. 4 and 6, 1-5 p.m. in 116 Wagner Building; cost: \$110.

■ **Improving Your Personal Effectiveness (PER 003)** Meets Tuesday, Dec. 5 and 12, 8:30 a.m.-noon in 319 Rider Building; cost: \$55.

■ **Introduction To IBIS (ADC 003)** Meets Tuesday, Dec. 5, 1-4:30 p.m. in 116 Wagner Building; cost \$40.

■ **Filmaker Pro For Windows (IBM 024)** Meets Wednesday, Dec. 6, 9 a.m.-4 p.m. in Room B Penn State Scenic; cost: \$150.

■ **How To Structure & Provide On-Job Training (PRO 027)** Meets Wednesday, Dec. 6 and 13, 8:30-11:30 a.m. in 319 Rider Building; cost: \$55.

■ **Resume Preparation (ICAR 002)** Meets Wednesday, Dec. 6, 1:15 - 4:30 p.m. in 319 Rider Building; cost: none.

■ **The Pathway From Groups To Teams (LDR 026)** Meets Thursday, Dec. 7, 8:30 a.m.-noon in 319 Rider Building; cost: \$35.

■ **Applying Quality Principles in Daily Work (CQI 002)** Meets Friday, Dec. 8, 8:30 a.m.-noon in 319 Rider Building; cost: none.

■ **Electronic Files Management (IBM 026)** Meets Monday, Dec. 11, 10 a.m.-noon in 116 Wagner Building; cost: \$35.

■ **The Secret Of Success: Dynamics Of Office Protocol (PER 014)** Meets Monday, Dec. 11, 1:30-4:30 p.m. in 319 Rider Building; cost: \$35.

Blood drive pits Penn State against Michigan State

Penn State and Michigan State faithful will soon see which group will give the biggest gift of life this year during the pre-holiday season.

The "Penn State-Michigan State Blood Donor Challenge" gets under way locally on Nov. 6, when workers from the American Red Cross Blood Services, Johnston Region, welcome donations by students, faculty and staff at several campus locations.

The challenge will end Nov. 20, with the results announced during half-time of the Penn State-Michigan State football game in Lansing on Nov. 25. Organizers hope to collect more than 2,000 pints of blood and surpass the total donated at Michigan State.

The Red Cross will be in the HUB Nov. 14-16, from 10 a.m. to 4 p.m. each day.

In last year's challenge between the two Big Ten schools, Michigan State edged Penn State's donation by only 18 pints, out of a total of 3,500 pints collected.

"We can't let that happen again," President Graham Spanier, said.

"But as important as it is to bring the award plaque back from Lansing in this friendly rivalry, blood donors save lives. There is nothing more vital than ensuring an adequate blood supply, especially as we look ahead to the holiday season."

Nearly 6,000 pints of blood are donated annually at University Park in 40-50 blood drives sponsored primarily by student organizations. A handful of colleges and staff groups also host blood drives for their employees. The blood is used to meet the needs of 80 hospitals in parts of five states.

(For information about dates and times the collection centers will be open, call the Red Cross at (814) 237-2713.)

Partings

Geography faculty retire with emeritus status

Professor on faculty for 28 years

Ronald F. Abler has retired as professor emeritus of geography after 28 years as a member of the faculty of the Department of Geography. Dr. Abler joined Penn State in 1967 as an assistant professor of geography, becoming associate professor in 1971 and professor in 1977. He served as head of the department from 1976 to 1982.

From 1984 to 1988, Dr. Abler was director of the Geography and Regional Science Program at the National Science Foundation in Washington, D.C. While at NSF, he expanded funding for physical geography and coordinated the establishment of the National Center for Geographic Information and Analysis.

Dr. Abler was a visiting professor at the University of British Columbia, the University of Minnesota and the Stockholm School of Economics. In 1989, he was the Harry Lyman Hooker Distinguished Visiting Professor of geography at McMaster University and the Wingard Visiting Professor of geography at Guelph University.

Since 1990, Dr. Abler has been on leave from his position at Penn State, serving as executive director of the Association of American Geographers in Washington, D.C. An expert on the geography of intercommunications technologies, Dr. Abler has examined the ways in which different societies have used such media at different times and places. He is co-author or editor of seven books, including *Corporate Networks: International Telecommunications and Interdependence: Perspectives from Geography and Information Systems* (Belhaven, 1993) and *Geography's Inner Worlds: Persuasive Themes in Contemporary American Geography* (Rutgers, 1992).

For the *Comparative Atlas of America's Great Cities: Twenty Metropolitan Regions* (Minnesota, 1976), he was awarded the Geographical Society of Chicago Publication Award in 1976. He co-edited *The Atlas of Pennsylvania* (Temple, 1989) with four other geographers, for which they were awarded the 1990 Distinguished Scholar Award by the Pennsylvania Geographical Society.

In 1985, he was elected a Fellow of the American Association for the Advancement of Science, and in 1990 he received the Centenary Medal of the Royal Scottish Geographical Society. He received the Association of American Geographers' highest award, AAG Honors, in 1995.

Dr. Abler served as president of the Association of American Geographers from 1984-87, and he currently serves on the boards of directors of the Consortium of Social Science Associations, the Renewable Natural Resources Foundation, the National Humanities Alliance and the National Center for Geographic Information and Analysis.

Dr. Abler received a bachelor's degree in 1963 from the University of Minnesota and master's and doctoral degrees in geography from the same institution in 1965 and 1968. He resides in Washington, D.C., with his wife, Barbara Bailey.



Ronald F. Abler

Landscape expert served more than 35 years

Peirce F. Lewis, professor of geography and a renowned expert on the origins, morphology and symbolism of the American landscape, has retired with emeritus rank after more than 35 years as a member of the faculty of the Department of Geography. He also was associated with the faculty of Penn State's program in American studies and participated in the University Scholars Program.

An expert on the geography, history and culture of the United States, Dr. Lewis was honored in late September by colleagues and friends.

In recognition of his dedication to teaching, he has received many awards including the Christian R. and Mary F. Lindback Award for Distinguished Teaching at Penn State in 1981, the Matthew J. and Anne C. Wilson Outstanding Teaching Award from the College of Earth and Mineral Science in 1989, and the 1982 Distinguished Teaching Award from the National Council for Geographic Education. In 1984, he also received a certificate of achievement from the Undergraduate Student Government for "outstanding service to the students of the University" and in 1992 was named to "The Incomplete List of Excellent Honors Instructors" by the students of the University Scholars Program.

In collaboration with colleagues, he developed an honors cluster course on "The United States of America: Land, Literature and Politics," for which they received the Provost's Award for Distinguished Multi-Disciplinary Teaching in 1992.

Dr. Lewis received a bachelor's degree in philosophy and history from Albion College in 1950 and was elected to Phi Beta Kappa. He received his master's and doctoral degrees in geography from the University of Michigan in 1953 and 1958. He was map librarian at the University of Michigan in 1952-53, and served as geo-



Peirce F. Lewis

grapher with the U.S. Army Forces Far East Command in Tokyo during 1953-55. Before joining the Penn State faculty in 1958, he was a National Science Foundation post-doctoral fellow in geomorphology at the University of Washington. He became professor of geography at Penn State in 1962.

As a visiting professor, Dr. Lewis has taught at Concordia University in Montreal, the University of California, Berkeley; the New York State Historical Association in Cooperstown; and Michigan State University.

Dr. Lewis is author of *New Orleans: The Making of an Urban Landscape* (Ballinger, 1976) and co-author of *Visual Blight in America* (Association of American Geographers, 1973).

In 1993, Dr. Lewis was awarded the John H. Bracken Medal from the Department of Landscape Architecture for his outstanding contributions to the study of the American landscape. In 1991, he received the Distinguished Geographer Award from the Pennsylvania Geographical Society.

He is also the recipient of a Woodrow Wilson Fellowship, a John Simon Guggenheim Fellowship, a Trustee of America Award from the Center for Historic Preservation at Mary Washington College, and a National Honors Award from the Association of American Geographers. He served as president of the Association of American Geographers during 1983-84 and has served, since 1984, as chairman of the John Brinkerhoff Jackson Prize Committee for distinguished books in American geography.

Dr. Lewis and his wife, Felicia, a member of the State College Borough Council, have been married since 1952. They have one son, Hugh. During his retirement, Dr. Lewis will continue teaching, writing and lecturing on the cultural geography of North America.

Obituary

Former associate professor dies

Susan F. Weis, a former associate professor of vocational and industrial education in the College of Education, died Sept. 30 at the age of 55.

Dr. Weis, who earned a bachelor's degree in 1962, a master's degree in 1966 and a Ph.D. in home economics education in 1969, all from Penn State, also served as professor-in-charge of home economics education (1987-1993) during her tenure at the University.

From 1983 to 1992, she was professor-in-charge of the intercollegiate doctoral program in vocational

education and was a reviewer for the American Home Economics Association, the Home Economics Division of the American Vocational Association, the *Journal of Curriculum and Supervision*, the *Journal of Vocational Home Economics Education*, the *Home Economics Research Journal* and the *Journal of Teacher Education*.

In addition, Dr. Weis served as the founder and adviser of the Omicron Chapter of Omicron Tau Theta, the national honorary professional graduate society for vocational education at Penn State. She also served on the executive committee of the Advi-

sory Council of the Center for Applied Academics and Technologies at the State College High School. She received the American Vocational Association, Home Economics Division, Outstanding Contribution Award in 1990.

In addition to her mother, Gladys, and her husband, Ronald, she is survived by four sons.

Memorial contributions may be made to the American Cancer Society, Suite 1, 1001 University Drive, State College, Pa. 16801; or the National Arthritis Foundation, 17 S. 19th St., P.O. Box 668, Camp Hill, Pa. 17011.

Research

Scientist works to develop weed strain that would improve golf greens

On the lush turf of golf greens, the presence of a weed is about as jarring as a sneeze in church. So why is a researcher in the College of Agricultural Sciences working on adapting a species of bluegrass that is classified as a noxious weed for use on golf greens?

According to David Huff, assistant professor of turfgrass breeding and genetics, certain strains of the bluegrass species *Poa annua* exhibit such desirable traits as upright growth, high shoot density and high tolerance to extremely low mowing heights most top golf courses use on their greens.

Creeping bentgrass is grown on most northern golf courses. Dr. Huff explains that, as its name implies, bentgrass grows flat rather than straight. The flattened grass can unpredictably influence the rolling path of a putt golf ball—a condition professional golfers call “grain.” Creeping bentgrass can be groomed to grow straight, usually by raking the greens and dressing the surface with sand.

Poa annua establishes itself in patches on greens planted with perennial grasses and has been a parish to greenskeepers for decades. “Typically, soil will become exposed from balls hitting the green or from spike marks, allowing the *Poa* to take hold,” Dr. Huff said.

Over a period of years, the bluegrass strain expands, usually outcom-



David Huff, assistant professor of turfgrass breeding and genetics, and research assistant Joyce Alden examine a strain of *Poa annua*.

Photo: Greg Grieco

peting the bentgrass. Dr. Huff says golf courses that are more than 80 years old often have greens made up exclusively of *Poa annua*. “If the greens are mowed very short—5/32 to 3/32 of an inch—creeping bentgrass becomes very stressed and the *Poa* does very well,” he said.

Over the past year, Dr. Huff has been collecting samples of *Poa annua* from golf courses across the country, primarily from courses more than 100 years old. From these samples, he hopes to produce a breed of *Poa annua* that can be developed into a commercial product.

“I see this product, being used for renovations of older courses where the greens are already com-

prised of *Poa annua* strains,” Dr. Huff said. “Of course, some course superintendents may prefer to plant *Poa annua* on newer greens and I think it produces a much superior putting surface.”

Once Dr. Huff has selected several varieties for breeding, he hopes to produce a cultivar that is resistant to heat and disease. He estimates his work could produce a commercial seed in about five years. “At the very least we’ll be able to develop a variety that is uniform in color, growth rate and texture,” he said.

As part of his research, Dr. Huff is constructing an experimental golf green to be planted entirely with *Poa annua*. The green, located near Beaver Stadium on the

University Park Campus, will allow him to observe how the grass performs under realistic conditions. He even plans to go out and putt on the green. All in the interest of science, of course.

“We have to evaluate turf quality and its putting surface to see which varieties will be best suited for use on greens,” Dr. Huff said. “For years scientists worked to try to get rid of *Poa annua*. We will still have to convince people that what we are doing is a good thing, but once they compare creeping bentgrass and the selected strains of *Poa annua*, the advantages of *Poa annua* should be clear.”

— John Wall

Research



Hormone may be linked to chronic lung disease

A new study suggests that pediatricians are learning to predict which premature newborns will develop chronic lung disease.

Dr. Kristi Watterberg, associate professor of pediatrics at The Hershey Medical Center, has evidence showing that premature babies who develop bronchopulmonary dysplasia (BPD) have less of the stress hormone cortisol early in life.

Dr. Watterberg's results show that premature babies who go on to develop BPD have lower cortisol levels in the first week of life than those premature babies who do not develop BPD.

Of 89 babies she and her co-workers examined, they found that on days two and four of life, the premature infants who later developed BPD had less cortisol than did premature babies who didn't develop the disease.

“BPD may develop when the baby's immune system produces lung inflammation and there is not enough cortisol to dampen down this inflammation,” she said. “We think that immaturity of the adrenal gland (which secretes cortisol) leads to an exaggerated inflammatory response.” She said cortisol is essential to resolve the inflammation that is initially caused by the immune system's response. “Instead of resolving itself, the babies' early lung disease progresses to chronic disease.”

Dr. Watterberg suggests that the next step is to give small doses of cortisol to low-birthweight babies for the first two weeks of life to see if such treatments might reduce the incidence or severity of BPD, and if cortisol reduces the inflammatory response.

Study outlines age differences in judges' sentencing of prisoners

A new study reveals that beyond age 20, the age of criminal offenders raises the odds of incarceration until offenders reach the 40-year mark, after which a age progressively lowers those odds.

“Incarceration odds favoring older offenders hold particularly true for crimes such as homicide and robbery,” Darrell Steffensmeier, professor of sociology, said. “This suggests that when judges give a 50-year-old

man a shorter sentence than a 25-year-old man for the same offense, it is because the judge believes him to be less dangerous to society than the 25-year-old. Moreover, the costs of jailing older offenders are perceived as more expensive than those of incarcerating the young.”

On the other end of the age spectrum, offenders 18 to 20 years of age also are treated with comparative leniency by the criminal justice system.

“Our findings show that people under 21 are sentenced on a par with offenders in their 40s but less harshly than offenders in their 20s and 30s,” Dr. Steffensmeier said. “Judges may give a break to young offenders because they view them as more impressionable and less blameworthy. Also, they seem to feel that for young offenders incarceration will do more harm than good and will

expose them to physical and sexual exploitation by older inmates.”

Dr. Steffensmeier, along with John Kramer, associate professor of sociology, and Jeffrey Ulmer, assistant professor of sociology at Purdue University, are co-authors of *Age Differences in Sentencing*, which appeared in *Justice Quarterly*.



New Web page

Check out our new Web page at <http://moc.cac.psu.edu/>. It includes announcements, specials, all of our price lists and links to many computer companies' Web sites for more information on products.

IBM PC announcements

IBM will be announcing its new ThinkPads, G Series monitors, Pentium desktop PCs and PC Servers at Penn State on Wednesday, Nov. 8, 1-3:30 p.m. at the new Applied Science Building auditorium on the University Park Campus. Please enroll by calling (800) IBM-4YOU and referencing Department BPS51.

IBM laptop special

IBM is offering a Penn State educational promotion on the laptop computer with the revolutionary "Butterfly" expanding keyboard. Lotus SmartSuite 4.0 for Windows is included at no additional charge, and three other accessories can be selected for a small promotional price. Orders must be received on or before Nov. 10. See the MOC Web page for more information.

Promotional rebate

Until Jan. 15, Apple is offering a \$150 rebate to customers who purchase any Macintosh Performa 630 series or 6400CD DOS Compatible computer along with any Apple printer. See the MOC Web page for more details.

Student Computer Fair

The MOC will hold its annual Student Computer Fair from 10 a.m. to 4 p.m. Thursday, Nov. 16, at the HUB Fishbowl on the University Park Campus. Speak with software and computer company representatives and have a chance to win one of many prizes.

For the record

Two headlines on page 14 of the Oct. 26 *Intercom* contained incorrect information.

■ **Joyce M. Matthews** has been appointed director of recruitment and admissions-CES by the Undergraduate Admissions Office.

■ **Michael P. Hottenstein** and **Clyton O. Rudd** are co-directors of the Quality in Manufacturing Management Program, a joint project of The Smeal College of Business Administration and the College of Engineering.



Only a test

A disaster drill involving a mock airplane accident, hazardous materials release and 20 accident "victims" was held Oct. 25 at the University Park airport. The University's hazardous materials team, area police, fire and ambulance departments and hospital personnel responded to the drill, which simulated an airplane landing at the airport but missing the runway, injuring 20 people and releasing hazardous materials. Disaster response drills are required every three years by the Federal Aviation Administration.

Photo: Greg Grieco

New hazardous materials vehicle makes its debut at disaster drill

The University's new hazardous materials response vehicle was on the scene for a recent disaster drill at the University Park Airport. The drill involved a mock airplane accident, hazardous materials release and 20 accident "victims."

Along with the University's hazardous materials team, area police, fire and ambulance departments and hospital personnel responded to the drill. In all, roughly 130 people and more than 20 emergency vehicles were at the scene.

The scenario for the-disaster drill

was an air disaster in which an airplane lands at the airport but misses the runway, injuring 20 people and releasing hazardous materials. The 20 victims were made up to look as if they had real injuries. Disaster response drills are required every three years by the Federal Aviation Administration.

The hazardous materials response vehicle is outfitted with an on-board computer, cellular phones and radios, a generator and lights, protective gear and equipment for containing and handling hazardous materials. It is owned by Penn State, and

will be used to respond to hazardous materials calls on campus and throughout Centre County. It is a refurbished 1982 Mack pumper, previously owned by the New York City fire department. It cost \$11,750 and was refurbished for roughly \$100,000. A brand-new hazmat response vehicle, similarly equipped, would have cost \$300,000.

The purchase and rehabilitation of the vehicle were supported by \$50,000 in funds from Penn State and \$50,000 from area businesses and industries.



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INTERCOM

November 9, 1995

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Campus incidents reflect growing national tensions

From Columbia University, where a debate over the publication of an anti-Semitic creed written by the president of the Black Students Organization continues to rage, to the hate messages scrawled on the walls of a residence hall at the University of Scranton, to our own backyard — it is clear: Campuses are not immune to the tensions that continue to plague the nation as a whole.

Recent incidents of vandalism on the University Park Campus and in the State College community, which included spray-painted or drawn swastikas and other graffiti, have

added to the divisions that are seen across America.

"There is no doubt that college campuses are reflecting the nation," Dale Tampe, director of housing at Ohio University, said. Dr. Tampe led a discussion Wednesday at The Penn State Scanlon on how universities could respond to hate groups on campus.

"It's easy to discuss issues related to hate groups, because they're so off the wall and far out that rational people of course wouldn't agree with them," Dr. Tampe said. "But that's not generally what you're dealing

with when you talk about intolerance. Mostly we're talking about living with people who are different from us, and some people aren't well-equipped to do that."

President Graham B. Spanier, who was saddened and angered by the recent events, called them "senseless, destructive and harmful to the entire University."

"We are a microcosm of society, and we must work hard to provide an atmosphere where everyone is welcome, to promote greater understanding and acceptance of our differences and to humanize the University," Dr.

Spanier said. "These recent incidents cannot be ignored and must be examined closely. I ask that everyone accept their responsibility to speak out against intolerance and injustice wherever they occur."

Terrell Jones, deputy vice provost in the University's Office of Educational Equity, said that although campus is reflecting the current mood of society, these incidents signal a need for the University community to recommit itself to civility.

In a 1989 national survey by the Carnegie Foundation for the

See "Tension" on page 3



Artists in the making

Catherine Guzman (right), joined by her mother Cristina, took part in Children's Day at the Paul Robeson Cultural Center on the University Park Campus. The two painted sea shells as part of the celebration of Hispanic Heritage Month.

Photo: Greg Grieco

Plan for Life Sciences on the table

The Life Sciences Interim Faculty Steering Committee recently made a detailed presentation to President Graham B. Spanier on its plans to develop an "umbrella structure" to promote excellence and innovation in the biological sciences at Penn State.

The committee's plan, mentioned by President Spanier to the University Faculty Senate on Oct. 24, leaves existing life science departments and programs in place. The "umbrella structure," to be known as the Life Sciences Consortium (LSC), will exist in parallel with those units.

Dr. Spanier told the Senate that LSC is an effort to bring faculty together, in synergistic ways, around new initiatives in the life sciences. He added, "I'm very optimistic about what I'm seeing emerge at this point. It makes a lot of sense to me and I

See "Life Sciences" on page 7

Inside

Special Intercom Notice

Because of the Thanksgiving holiday, the *Intercom* deadline for the Nov. 30 issue will be Nov. 21 at noon — one day earlier than the regular deadline. Anyone with questions should contact the *Intercom* staff at (814) 865-7517.



Happy holidays ...already

The Fifth Annual Holiday Ornaments Exhibition & Sale is planned once again for the Palmer Museum of Art on the University Park Campus. See page 10.

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DIVERSITY

Commission sets priorities for the coming year

The Commission for Women began the 1995-96 year with a full day retreat on Aug. 31 to set priorities for the year and to share those priorities with the University president. The commission has set four overarching priorities for 1995-96:

■ **Climate** — The commission continues to be concerned about the work and learning environment for women faculty, staff and students. Committees will continue during the year to work on women's health issues, the expansion of child and family care options, mandatory training on sexual harassment, a workshop for technical service workers and the development of mentoring programs for faculty, staff and students.

■ **Communication** — The communication between the commission and University leaders about the needs and concerns of women at University Park, the CES and other locations has increased. The commission will also address ways to enhance the communication to women faculty, staff and students about discrimination and violence, and the resources available to address these issues.

■ **Commitment** — The commission will continue to press for increased and visible commitment to the concerns of women. To that end, the commission will continue to forward names of women to executive search committees, will continue to participate in the Strategic Planning for Diversity process, and will continue to monitor the implementation of the recommendations of the *Tenure-Track Faculty Study*.

COMMISSION for Women

A column informing the University community
about the activities of
the Commission for Women

■ **Change** — The Commission for Women recognizes the need for continuous change as the University moves toward gender equity and the 21st century. In partnership with University units, the commission will press for the advancement of women to positions of responsibility and authority by continued monitoring of SPEC, periodic reviews of women's advancement through the promotion and tenure process, and assessment of the needs of women faculty and staff.

Much of the commission's ongoing work occurs within the various committees. The 1995-96 committee chairs are: **Nancy Herron**, director of academic affairs, Penn State McKeesport, chair of the Issues and Policies Committee; **Patricia Book**, associate vice president and associate dean for Continuing and Distance Education, chair of Women's Athletics Committee; **Tineke Cunningham**, counselor, Career Development and Placement Services, chair of the Banquet Committee; **Mary K. Howett**, professor of microbiology and immunology, The Milton S. Hershey Medical

Center, chair of the Liaison Committee; **Kathleen Matason**, administrative assistant in the Department of Meteorology, chair of the Professional Development Committee; **Debra Putt**, staff assistant, Department of Biology, chair of the Outreach Committee; **Ingrid Blood**, associate professor, Department of Communication Disorders, chair of the Nomination Committee; **Ellen Walker**, academic adviser, The Smell College of Business Administration, chair of the Executive Committee and chair of the Commission for Women.

New Commission for Women members for the 1995-98 term are: **Eva Bueno**, assistant professor of Spanish, Penn State DuBois Campus; **Sangeeta Dhawan**, graduate student, Department of French; **Margaret Lyday**, associate professor of English; **Ossie Parker**, janitorial worker, Office of Physical Plant; **Louise Sandmeyer**, executive director, Continuous Quality Improvement Center; **Susan Shuman**, research project associate, Continuing and Distance Education; **Mila Su**, senior assistant librarian, Robert E. Eiche Library, the Penn State Altoona Campus; **Nancy Witherite**, staff assistant, College of Engineering.

The Commission for Women meets monthly. Upcoming meetings are scheduled for Wednesday, Nov. 15, 1-3 p.m., and Thursday, Dec. 14, 1-3 p.m., both in 101 Health & Human Development East on the University Park Campus.

If you would like to become involved in the work of the commission as a volunteer or would like more information, please call the commission

BOOK SHELF

Edwin L. Herr, Distinguished Professor of education and associate dean for academic programs and research in the College of Education, is the author of *Counseling Employment-Bound Youth*, published by ERIC/CASS Publications of the University of North Carolina. The 302-page book is the first of a signature series of books funded by the U.S. Department of Education, and written by scholars on major issues confronting education and counseling.

In the book, Dr. Herr analyzes the status of the millions of employment-bound high school graduates in the U.S. who have largely been ignored in the literature on careers and counseling. These are youth

whose goal, at the end of high school, is to go directly to work rather than to post-secondary education or college. They constitute the largest proportions of the work force of the technical, skilled, clerical, retailing, construction and transportation systems of the nation.

Dr. Herr identifies the importance of this population to the nation's economic and human resource development goals, how competitor nations address the educational and career development needs of these people, and the importance of collaboration among schools, community-based transition services and employers in facilitating career planning, prepara-

tion, the movement, induction and adjustment to employment.

Dr. Herr also discusses specific counseling, educational and human resource strategies important to this population.

Dale Jacquette, associate professor of philosophy, wrote an introduction for and edited *Meinong's Theory of Objects and Values*, a reissue of John N. Findlay's classic work, published by Ashgate Publishing, Aldershot, England.

Dr. Findlay's work is considered the most concise and authoritative statement of Meinong's philosophy and a paradigm of precise historical exposition and criticism in the analytic tradition. He also provides an appreciation of Meinong in a historical context. This study continues to be the initial reference point for scholars attempting to elaborate intentionalist logics, semantics and value theories in the intentionalist mode.

More at home with books and pencils than CD-ROMs, **Dinty W.**

Moore, assistant professor of English at the Penn State Altoona Campus, delves into cyberspace in his book *The Emperor's Virtual Clothes: The Naked Truth About Internet Culture*, published by Algonquin Books, 1995.

Dr. Moore spent eight months trolling the Internet — the loose, decentralized network that links upward of 35 million computer users worldwide — in an effort to find out if the "much-touted" medium and the electronic culture it has spawned is really going to be the "Next Big Thing," or whether it's all hype and smoke.

Through his research, Dr. Moore discovered that, despite the hype, the information superhighway is simply speeding things up, not changing our destination. He also found that, more than anything else, the Internet mirrors human existence in all its various forms.

Dr. Moore's book is full of snippets of Internet conversations, descriptions of those who surf the 'Net, explanations of the dark side of the Internet and an Internet jargon handbook.

Penn Staters

Mazlet Aron, instructor in art at the Penn State Altoona Campus, has received the 1995 Ohio Arts Council Individual Artists Fellowship Grant.

Travis DeCastro, assistant professor of theatre arts and production stage manager for Centre Stage and the University Resident Theatre Company, will stage manage the 1995 Christmas show at Radio City Music Hall in New York City from Nov. 18 through Dec. 28. In a role he has enjoyed for the past eight years, Mr. DeCastro helps coordinate the Christmas show's cast and crew of more than 200 people, a 36-piece orchestra, and a schedule of up to 31 performances per week.

Dr. C. McCollister Everts, senior vice president for health affairs and dean of the College of Medicine at The Milton S. Eversley Medical Center, was named chairman of the board of directors of the Association of Academic Health Centers.

The Association of Academic Health Centers is a national, non-profit organization of more than 100 U.S. and Canadian health complexes of major universities. The AHC seeks to influence public dialogue on significant health and science policy issues, advance education for health professionals, promote biomedical and health services research and enhance patient care.

Jack Gido, director, Pennsylvania Technical Assistance Program (PENNTAP), has been named president of the National Association of Management and Technical Assistance Centers. He will serve a one-year term.

Dale Jacquette, associate professor of philosophy, presented a paper titled "Meinong's Concept of Implicx Being and Nonbeing" at the Internationale Meinong-Konferenz.



Sign of the times

Ann G. Sidone, instructor in communication disorders, signs the number seven to her manual communications class. Ms. Sidone, who is hearing impaired and views herself as a cultural bridge between the hearing and the deaf, has been teaching sign language at Penn State since 1988. This photo was taken as part of a class assignment to capture a personality portrait of someone at work for Comm 269, Introduction to Photojournalism.

Photo: Cassandra Watson

Tension

continued from page 1

Advancement of Teaching, one in four of all college and university presidents reported that racial tensions are a problem on campus.

"From the local level to the national level, to the international level, the cultural landscape is changing and people don't like change," Dr. Jones said. "Locally, we

"Ignorance is out there. Disrespect is out there. Intolerance is out there. If we can't talk openly here, on a university campus, about these issues, where will they ever be addressed?"

— Terrell Jones
deputy vice provost
Office of Educational Equity

are a different community from what we were even one year ago and as an educational institution, we need to reinforce our commitment to community— ∞ common purpose. We need to powerfully affirm civility, which should be at the heart of all we do."

Dr. Tampke agreed. Getting people involved in projects that cut across class and ethnicity and that require coop-

eration help to build a sense of community.

"Although it may be almost cliché to say 'Let's create community,' I think when people are elbow-to-elbow, not focusing on differences but focusing on common objectives, they are a community," he

said. "By no means is it a panacea, but it is a step toward strengthening community and teaching respect."

Aaron D. Gresson III, associate professor of education and author of the book *The Recovery of RACE in America*, said education can play a crucial part in defusing the current intolerant climate, that he believes is drawing validation from national leaders who play on stereotypes turning one group against another in a scramble for resources.

"We need to be alert to the fact that our country is especially vulnerable right now," he said. "We've entered a phase in our history where the differences between the haves and the have nots stands out much stronger. We need to be alert, courageous and morally straightforward to challenge these incidents. We need to communicate better with diverse populations."

"Education is a powerful force we have to challenge this propensity of blaming the other," Dr. Gresson said.

David McBride, head of the Department of African and African-American Studies, also believes acts of intolerance can be lessened and cultural differences can be managed better if the entire University community becomes involved.

"We have pretty good guidelines and priorities spelled out by the administration with respect to diversity and affirmative action, and we've been very forward in keeping these principles in the forefront and supporting them," said Dr. McBride, who was one of several faculty and staff who took part in the Oct. 16 Million Man March in Washington, D.C. "But maybe it's time we widen those efforts. It's time for everyone to participate."

Some of the efforts to provide a more supportive and welcoming atmosphere include the formation in 1987 of the Campus Environment Team for each Penn State location, which helps monitor and

manage the campus climate for diversity. The Campus Environment Team provides proactive direction for the University's diversity efforts.

In 1990, the University included diversity planning as part of its strategic planning process where every college and unit was asked to establish goals to help create and support a diverse community. The plans range from curriculum changes to diversity training, to addressing climate issues in individual units.

Since 1991, all students working toward a baccalaureate degree take some type of diversity course, and since 1992, entering associate degree students are required to do the same. And from 1994-1995, more than 300 diversity-related programs were conducted by colleges, departments and other units at Penn State.

While some recent media reports have called racial and ethnic tensions "the inescapable complications of American life," Dr. Jones believes that by talking openly about the situation and expecting civility, the University community can be proactive in how it manages the inevitable conflict.

"A good yardstick to measure how we're doing in this area is not if there is zero conflict, because conflict is the natural by-product of people of different cultures living together," Dr. Jones said. "A good measure is how we handle that conflict. We can find the individuals who commit these terrible acts, but that will not solve the real problem—how do we plan to live together."

"Ignorance is out there. Disrespect is out there. Intolerance is out there," he said. "If we can't talk openly here, on a university campus, about these issues, where will they ever be addressed?"

— Lisa M. Rosellini

President Spanier tells urban youth to set high goals during Nov. 2 visit to Delaware County Campus

President Graham B. Spanier offered words of encouragement to students from one of the state's most challenged urban high schools last week, urging the group to "set your goals high, no matter what your circumstances are."

During the latest leg of his statewide tour, Dr. Spanier met with the group of about 50 juniors and seniors from Chester High School near Philadelphia. Chester High, like many of its urban counterparts, has been plagued with a host of problems, from violence, teen pregnancy and drugs to mounting fiscal challenges.

The University's 16th president, who grew up in south Chicago and worked his way through school, drew on the details of his life when talking to the Chester High students, encouraging them to overcome obstacles with determination and commitment.

"No matter what your grades are, no matter what part of the community you're from, you should set your goals high," he said. "Part of what Penn State is all about is helping people reach those goals."

Dr. Spanier fielded a wide range of student questions, from program-specific queries to questions on the number of African American students at the University Park Campus.

"Anything is possible in this country of ours today," Dr. Spanier told the group. "We hope that many of you aspire to great things. And if any of us at Penn State can be helpful to you in any way, we want to do that."

Dr. Spanier's visit to Chester High followed a gathering on faculty, staff and students at the Penn State Delaware County Campus, where his day began. At the campus, Dr. Spanier answered questions on recently announced plans to study how Penn State's campuses can best meet the needs of their communities. Faculty raised questions about possible regional collaborations and expressed hope for increased flexibility in the campus' ability to offer additional four-year degrees. The Delaware County Campus now offers four-year bachelor's degree programs in general arts and sciences, American studies, speech communications and urban education.

The president also lamented the state's weak financial support of Penn State, noting that Pennsylvania is ranked 47th among the 50 states in per capita support of higher education. As he has done at all



After a meeting with about 50 juniors and seniors of Chester High School near Philadelphia, President Graham Spanier talks with student Jason White. At right, high school Principal Graynie Edwards applauds a remark from Edward Tomaszko, Delaware County CEO, that a bus for students would be chartered to tour the University Park Campus.

Photos: Meljane Arnold

his statewide stops, he again urged students to work constructively toward convincing local legislators of the importance of reversing this trend.

Campus Executive Officer Edward S.J. Tomaszko also announced a \$500 academic excellence award established in Dr. Spanier's name that the campus will present each year during its honors convocation.

Also during his visit to Delaware County, Dr. Spanier met with business leaders at a Delaware County Chamber of Commerce luncheon, traveled to the county Cooperative Extensive Service, visited another area high school and met with senior administrators from several area school districts. Later in



the day, Dr. Spanier returned to the Delaware County Campus to meet with the Campus Advisory Board, and attend an alumni reception and donor dinner.

Committee makes recommendations on storing information

It seems paper is becoming obsolete. Just ask the Imaging Committee — a University-wide entity charged with determining the best way for Penn State to manage its paper documents, records, forms, photos and drawings.

In a report issued by the committee, a series of recommendations on how individual offices and units, as well as the entire University, can invest in electronically capturing, storing, indexing, retrieving and distributing information were spelled out.

Known as "imaging technology," the process would make information easily and immediately available to individuals at all Penn State locations. Images are created by electronically photographing a document through scanning. The scanner records images digitally and the image can then be stored in a computer database. Paper thus becomes unnecessary in the trans-

fer and storage of information.

Document imaging technology enables frequent changes to data and is ideal for storing documents that are frequently accessed. It is also an excellent archival system for documents with graphic information, such as maps, charts or photos.

In its report, the Imaging Committee, formed in 1994, offers considerations for units considering embarking on the new technology and also cautions against viewing imaging technology as an "add-on" resource. Commitment to imaging means a new way of doing business. It means records must be shared and interface cooperation and coordination is essential.

Because imaging is not the appropriate storage or transfer medium for all documents, the committee offered a list of things units should consider

before undertaking an imaging storage or transfer project:

- Imaging makes documents immediately and always available; microfilm effectively stores rarely-accessed material;
- Imaging, like all technology, needs to be "refreshed" every three to five years; microfilm requires no refreshment.
- Imaging enables frequent changes in data; microfilm is ideal for storing data that is static and is to be kept for 10-20 years or more.

In addition, several recommendations presented to University officials aimed at helping the University community make the transition to imaging include:

- Provide visible support and encouragement in the form of central funding for modest, prototype demonstration projects.

— Consider centralizing some imaging functions rather than distributing functions to individual offices. Some applications of imaging can only be successfully made with central infrastructure investments.

— Encourage offices to share imaging infrastructure investments across unit boundaries.

— Pursue University-wide alliances with key imaging vendors.

— Adopt technical standards to ensure easy access to imaged information throughout the institution. — Enable the committee to continue its work.



The full report from the Imaging Committee can be accessed on the World Wide Web at URL: <http://www.psu.edu/report.html>.

Appointments

MIT scholar joins faculty of The Smeal College of Business Administration

An MIT scholar, well known for his work on optimization models for manufacturing, telecommunications and transportation and for his collaborative work with engineering experts, has been selected as the first faculty member to hold a Smeal Chair in The Smeal College of Business Administration.

Anantaram Balakrishnan, associate professor of management science at MIT's Sloan School of Management, will formally join The Smeal College in January, taking the first of five endowed chair positions created through a \$10 million gift to the University from leading benefactors Frank P. and Mary Jean Smeal.

Dr. Balakrishnan will be part of The Smeal College's Department of Management Science and Information Systems and is expected to serve as a catalyst for the further development of cross-functional research and educational programs involving the disciplines of engineering and business.

Along with MIT, Penn State has already established a front-running position as a founding member of the National Coalition for Manufacturing Leadership, a consortium of top schools and corporations. Among Balakrishnan's duties will be jointly developing and teaching design practice in manufacturing in the new Quality and Manufacturing Management program (QMM), a one-year, graduate joint-degree program offered by The Smeal College and the College of Engineering. Pilot QMM courses will be offered in the 1996 spring semester.

In addition, he is expected to explore the opportunities for establishing a new research center in the field of operations modeling, developing a unit that would not only meet the needs of industry and open avenues of investigation for scholars, but benefit students as well.

Dr. Balakrishnan, a native of India, has been a faculty member at MIT for seven years. Before that he taught and conducted research at Purdue University from 1985 to 1988. From 1979 to 1980, he was a research associate at the Indian Institute of Management in Ahmedabad, India, and for a year before that, a consultant with Management Structure and Systems Pvt. Ltd. in New Delhi. He earned his bachelor's degree from the Indian Institute of Technology in Madras and a post-graduate diploma in management from the Indian Institute of Management. He holds a doctoral degree from MIT.

College of Engineering names director of Women in Engineering Program

Barbara Bogue has been named director of the Women in Engineering Program in the College of Engineering. Ms. Bogue will develop and coordinate programs for the recruitment and retention of undergraduate and graduate female students and develop industry links with the Women in Engineering Program.

As coordinator of engineering college relations for the past six years, Ms. Bogue was responsible for media relations planning in the College of Engineering. She reorganized the college's publications program, created the periodical *Engineering Penn State*, and wrote and produced several engineering videos. She also advised and worked with students, both on academic projects and on recruitment activities. One of her minority recruitment publications, produced with University Publications, has won several national awards, as did her promotion-

al materials for the nation's first reunion of engineering alumnae.

Before coming to Penn State, Ms. Bogue was a freelance journalist and publisher, working primarily with the *Houston Chronicle* and the University of Houston. She also served as an instructor for the University of Houston. While in Houston, she developed and implemented several programs designed to enrich inner-city school curricula.

As founding president of the State College-based Community for Peace Education, Ms. Bogue oversaw development of the Peace and conflict studies minor in STS, a regional peace studies center and co-organized a national conference for the Peace Studies Association. She is a board member of the State College Friends School, Pennsylvania Dance Theatre and the Community for Peace Education.

She holds a master's degree in international relations from the University of Southampton, England, and a bachelor's from Nebraska Wesleyan University.



Barbara Bogue

Instructional Services director appointed in College of Engineering

Rose M. Marra has been named director of Engineering Instructional Services in the College of Engineering. She will be in charge of training new teaching assistants in the college, conducting seminars for new faculty and implementing assessments for many of the teaching innovations introduced into the college in the last few years. The assessment work will allow the college to quantify and describe the effect of these teaching changes on students.

Ms. Marra most recently worked as a senior training specialist for the Applied Research Laboratory where she was lead designer for a Department of Defense project on computer-based learning environments.

In 1994, she served as a GE Fellow in the Leonhard Center for the Enhancement of Engineering Education. While there she co-developed the College of Engineering Leadership Development minor curriculum, pedagogical strategies and evaluation plan. She also was a consultant for engineering courses.

Earlier, Ms. Marra was a software engineer and technical writer for eight years at AT&T Bell Laboratories in Denver. While at Bell Labs, she received the Peer Quality Award and the Individual Performance Award. She also received the AT&T Affirmative Action Award and the Denver Educational Excellence Program Award for developing a program that brought 40 middle school students from the Denver Educational Excellence Program to AT&T for mentoring and technical experiences.

Ms. Marra has published and presented a number of papers on computer-based instructional methods and multimedia theory and techniques. She will complete a Ph.D. in instructional technology in December at the University of Colorado-Denver. She has a master's degree from the University of Kansas and a bachelor's from Rockhurst College, both in computer science.



Rose M. Marra

EMPLOYEE BENEFITS

A regular column provided by the Office of Human Resources

Making Changes

The annual employee benefits switch enrollment period runs through Nov. 30. Faculty and staff enrolled in the Voluntary Accidental Death and Dismemberment (VADD) program who wish to change the amount of coverage must do so during this period. All eligible faculty and staff may change the amount of coverage, or enroll for the first time without any proof of insurability. Employees who currently provide VADD coverage only for themselves may extend coverage to eligible dependents, if they wish.

VADD request for change forms are available from human resources representatives, campus business offices or the Employee Benefits Division, Rider Building. The monthly and bi-weekly costs for coverage appear on the form.

Individuals enrolled in the age-graded life insurance plan, which provides amounts of coverage as a multiple of salary, may increase the amount of coverage by one times their salary without proof of insurability. The maximum coverage amount is the lesser of four times their salary or \$300,000.

It should be noted that in the age-graded plan, coverage may be decreased at any time. Increases of more than one times salary or requests to increase coverage other than during the annual switch enrollment period will require the completion of medical information. Also, participation in the life insurance program is voluntary. Faculty and staff may elect to discontinue their life insurance coverage. The \$5,000 life insurance coverage provided by Penn State at no cost would continue.

Life insurance request for change forms are available from human resources representatives, campus business offices or from the Employee Benefits Division. If questions regarding VADD or life insurance coverage should be directed to the Employee Benefits Division at (814) 865-1473 or E-mailed to BENEF@SUADMIN.

Happy Halloween

President Graham Spanier got into the Halloween spirit on Oct. 31, dressing up as the Nittany Lion and surprising Penn State campus directors of University relations during a meeting at the Nittany Lion Inn on the University Park Campus, right. The president also popped in on faculty and staff in other offices on the University Park Campus during the day, handing out treats.

Not to be outdone, members of the faculty and staff of the College of Engineering later donned costumes and paid a visit to Dr. Spanier at his office in Old Main, below, as part of their annual tradition.



Photos: Greg Gracoe



Promotions

Staff

Laura Bender, staff assistant VI at Penn State Erie, The Behrend College.
Beth A. Borkowski, staff assistant V in The Smeal College of Business Administration.
Donna M. Bradley, clinical head nurse at The Hershey Medical Center.
Donna R. Carr, staff assistant V in Housing and Food Services.
Anita F. Colyer, program coordinator II in Continuing and Distance Education.
Maureen A. Costello, foreign student director in Office of The President.
John L. Dietz, director of development in Division of Development and University Relations.
Edward J. Frear, coordinator, Neurophysiology Laboratory, at The Hershey Medical Center.
Joan M. Gessner, staff assistant V at Penn State Abington-Ogontz Campus.
Tina M. Gosch, assistant to financial officer at Penn State Berks Campus.
Lothar D. Gunberich, area representative II at Penn State Berks Campus.

Richard T. Heininger, senior applications programmer/analyst in Budget and Resource Analysis.
Susan L. Houck, staff assistant V in Business Services.
Wayne Janis, group manager at The Hershey Medical Center.
Pamela M. Kachik, staff assistant VI in College of Engineering.
Carol A. Kelly, finance and accounting assistant at The Hershey Medical Center.
Melody D. Lane, administrative assistant II in College of the Liberal Arts.
Deanna S. Lidgett, staff assistant VII in The Smeal College of Business Administration.
David Lubovinsky, systems project leader I in College of Agricultural Sciences.
Joyce C. Lucas, information systems support consultant in Computer and Information Systems, Office of Administrative Systems.
Ruth S. Martin, clinical program coordinator at The Hershey Medical Center.
Dale M. Meyerhoffer, computer oper-

ator at The Hershey Medical Center.
Kathleen G. Mingioni, assistant director for admissions at Penn State Great Valley.
Anthony B. Mitchell, counselor in Office of The President.
Linda S. Monn, staff assistant VII at Penn State Mont Alto Campus.
Amy L. Mumaw, staff assistant V at The Hershey Medical Center.
Brenda L. Nauman, staff assistant V at The Hershey Medical Center.
Kristin A. Owens, conference coordinator in Continuing and Distance Education.
Stanley L. Peterson, supervisor, Engineering Labs, in College of Engineering.
Penny J. Rhoads, staff assistant VII at The Hershey Medical Center.
Jill R. Rhodes, staff assistant VI at Penn State Great Valley Graduate Center.
Tyrra R. Rowe, staff assistant VI at The Hershey Medical Center.
Jeffrey C. Sanders, supervisor, Special Hematology Laboratory, at The Hershey Medical Center.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Leadership training

William Asbury, vice president for Student Affairs, **Carol Everett**, assistant director of the CQI Center, and **Barbara Sherlock**, human resources CQI specialist, have been selected to attend a three-day training session for the 1995 Pennsylvania Quality Leadership Award Examiners Board. After successfully completing the training, examiners will review several publicly or privately held Pennsylvania manufacturing or service organizations that have attained a high level of performance excellence and competitive advantage in domestic and world marketplaces. The award is given each year to no more than six organizations. Evaluation is based on the Malcolm Baldrige Award criteria.

TQM on the dairy farm

The College of Agricultural Sciences Cooperative Extension Program has been funded \$160,000 by the U.S. Department of Agriculture for a project titled, "TQM Practices on the Dairy Farm, A National Program." Faculty and staff participating in the project are: **William Sischo**, professor of veterinary science; **William Heald**, professor of dairy science; **Lawrence Hutchinson**, professor of veterinary science; **Lisa Holden**, assistant professor of dairy and animal science; **Carol Burns**, extension and research assistant; **Nancy-Ellen Kiernan**, evaluation specialist; and **Louise Byler**, senior research technologist.

Benchmarking student advising

Members of the Academic Quality Consortium, a group of 20 colleges and universities that work collaboratively to implement CQI in higher education, will meet in Washington, D.C., Nov. 20-21 to benchmark student advising processes. **Eric White**, director of the Division of Undergraduate Studies and **Carol Everett**, assistant director of the CQI Center, will represent Penn State. Dr. White is a member of the Undergraduate Education/Enrollment Management and Advisation design team that oversees the work of the Comprehensive Academic Advising System (CAAS) team. The CAAS project will provide Penn State students with access to an expert-based advising system delivered by the latest interactive computer technologies. The CAAS test is led by **Gary Hile**, director of academic records.

25-year Awards



Observing 25 years of service at the University are, from left, Bonnie L. Crow, laboratory attendant in the Department of Cellular and Molecular Physiology; Barbara Lutz, research funding coordinator, Office of Research Affairs, College of Medicine; and Dennis R. Williams, chief clinical perfusionist, Operating Room; and director, Cardiac Perfusion Technology Training Program, Department of Surgery, all at The Hershey Medical Center; H. Louis Brungard, construction quality representative, and Samuel J. Duck, foreman, Operations and Maintenance, Steam Plant, both in the Office of Physical Plant; and E. Alan Cameron, professor of entomology, in the College of Agricultural Sciences.

Life Sciences

continued from page 1

think it will be something that's within our ability to implement."

Nina Fedoroff, chairperson of the Interim Faculty Steering Committee, said the LSC will help and encourage faculty members who comprise the University's life science units to re-group themselves when appropriate. These new, cross-college, interdisciplinary groupings will be fluid and flexible. They may be created, for example, to respond quickly to new scientific opportunities or to integrate new teaching strategies, such as "active learning," into the curriculum. Groups could also form to develop new graduate degree programs and research teams designed to respond to the changing employment climate.

"We are working toward tailormaking graduate programs for individual students," Dr. Fedoroff said. "And while that isn't impossible to do now, through LSC, we want to make it easier to do."

The steering committee has already issued a request for interdisciplinary graduate program proposals to faculty members in participating colleges, including Agricultural Sciences, Engineering, Health and Human Development, the Liberal Arts, Medicine and Science. It expects to select three to 10 proposals for development through LSC during the coming months.

"This Life Sciences Consortium is the tangible product, the culmination of a long process of discussion at Penn State," David Shirley, vice president for research and graduate education, said. "We believe the consortium will provide an infrastructure to allow the University to attack scientific and educational opportunities of the future."

The Life Sciences Consortium initiative started in 1993 with the University Future Committee, which identified the biological sciences as an important priority for Penn State. A Life Sciences Study Group, chaired by Peter Cavanagh, Distinguished Professor of locomotion studies, biobehavioral health and medicine, was appointed later by President Joab

Thomas to consider the development of a University-wide "umbrella structure." An implementation committee of deans, headed by Dr. Shirley, subsequently recommended that the "umbrella structure" be called a "Division of Biological Sciences."

At President Spanier's suggestion, the name of the "umbrella structure" was changed recently to emphasize the voluntary and collegial nature of its relationship to the existing units of the University.

Some additional highlights of the steering committee's proposals include:

- New Faculty Appointments made in existing colleges and departments with LSC support to encourage development of new interdisciplinary, cross-college, educational programs and research teams;

- Graduate Fellowships funded by LSC to attract strong students;

- Shared Technology Facilities strengthened, integrated and modernized through new funding, better management, communication and resource sharing;

- Seed Grants supported through an Innovative Biotechnology Research Fund to provide support for the initial stages of innovative, cross-disciplinary projects increasingly difficult to fund in conventional ways; and

- Small Workshops, and other stimuli for communication, including video conferencing to promote cross-disciplinary activity.

Dr. Fedoroff noted that the committee has endorsed the suggestion that the Biotechnology Institute be reorganized and re-named the Institute for Biotechnology Research and Education.

"With the separation of the Bioprocessing Resource Center, the Biotechnology Institute has focused more on research and education," she said. "It seemed logical to suggest that it evolve and become part of the Life Sciences Consortium."

The reorganized institute will administer the Innovative Biotechnology Research Fund, which will use an

external peer-reviewed grant mechanism to award seed grants. The current staff of the Biotechnology Institute will constitute the initial administrative staff of the LSC. The shared technology facilities, which provide faculty with services including computer support, electron microscopy, flow cytometry, monoclonal antibody production and oligonucleotide synthesis, were recently brought together through the institute's efforts. These facilities, which will be expanded to include DNA sequencing in the near future, serve the life sciences community and will be integrated into the LSC as well.

Dr. Fedoroff said she wants to improve the shared technology facilities on the University Park Campus and the College of Medicine in training students.

"If we are going to train state-of-the-art students, we need to have them work with state-of-the-art equipment and techniques to solve problems at the cutting edge of science," Dr. Fedoroff said.

Although LSC's principal focus is initially on graduate education, Dr. Fedoroff said she hoped to see enrichment of the undergraduate curriculum as well.

The Life Science Interim Steering Committee which Dr. Fedoroff heads will be replaced with a faculty steering committee for research and graduate programs in July 1996. Dr. Fedoroff will then become director of the Life Sciences Consortium Research and Graduate Programs. A deans' council will govern the consortium. The council will include Dr. Shirley as chairman.

The steering committee's statement about LSC's goals, as well as its recent call for graduate program proposals, can be accessed

on the University Relations World Wide Web site at URL

<http://www.pubinfo.od.psu.edu>

Directions for obtaining more information are also available at that Web site.

Hershey scientists win \$3.2 million contract to study heart pump

Researchers at The Milton S. Eshery Medical Center have been awarded a \$3.2 million five-year contract by the National Heart, Lung and Blood Institute to develop the next generation of permanent, electric heart-assist pumps.

Funding was awarded to six research teams and will allow researchers to use new technologies to evaluate new electronics and materials and make improvements on the current model.

Hershey researchers have been working with Arrow International to take the current version of the electric LVAD through the FDA approval process and into general clinical use within five years. The device is powered by rechargeable batteries and lasts approximately two years; the new LVAD will be for five years.

Dr. William S. Pierce, Evan Pugh and Jane A. Fetter Professor of surgery and chief of cardiothoracic surgery, is the Hershey team's principal investigator.

The LVAD would be a permanent version for patients who have heart failure affecting the left side of the heart but who don't need a transplant or a total artificial heart. The institute estimates that the LVAD could save about 35,000 lives a year.

The assist device supports a heart's weak left ventricle in pumping blood through the body. Though the device originally was intended to let the heart rest and recover after surgery, as transplants became more common, its use shifted to a bridging device, helping keep some patients alive while waiting for a donor heart.



The Arts

AT PENN STATE

New theatre opens

The Penn State Beaver Campus will celebrate the opening of its new theatre with a production of the Rodgers and Hammerstein musical "Carousel" on Nov. 10, 11 and 12. The theatre is located in the Study Learning Center, which opened last fall. "Carousel" is produced and directed by Beaver Campus faculty members Emma S. Rocco, associate professor of music, and Harvey R. Kelly Jr., assistant professor of speech communication.

The play will be presented on Nov. 10 and 11 at 7:30 p.m. and on Nov. 12 at 2 p.m. Tickets range from \$8 for the general public and \$6 for senior citizens. Tickets can be obtained in advance by calling Beaver Campus at (412) 773-3681.

Central Ballet of China

The Central Ballet of China will perform at 8 p.m. Friday, Nov. 10, in Eisenhower Auditorium on the University Park Campus. The performance is sponsored by the Center for the Performing Arts.

Founded in 1959, the Central Ballet of China's initial dancers were graduates of the Beijing Dance Academy. In the company's 36-year existence, it has toured widely and received many international awards.

Tickets are \$22, \$17 and \$14 for non-students; \$18, \$13 and \$10 for students.

For ticket information contact the Arts Ticket Center, open 8:30 a.m. to 4:30 p.m., Monday through Saturday, at (814) 863-0255. Outside the local calling area, phone (800) ARTS-TIX.

Penn State Thespians

The Penn State Thespians will present *Joseph and The Amazing Technicolor Dreamcoat* by Tim Rice and Andrew Lloyd Webber in Schwab Auditorium, Nov. 10 at 8 p.m. and Nov. 11 at 2 and 8 p.m.

The show is based on the biblical tale of Joseph (played by Rusty Pettit) who has a prophetic tale and is given a coat of many colors by his dotting father, Jacob (played by Christopher Kraus). This biblical fantasy combines country and western, calypso, '50s rock and roll and acid rock into a flamboyant musical for young and old. Director/choreographer Lauren Marie Hamm uses her dance experience to tell the story through the many musical numbers. As another feature, she incorporates a choir of school children who act as readers and inter-

preters of the biblical story. The children's choir from Our Lady of Victory Church, under the direction of Gary Penkala, allow the audience to see a more relevant version of the story through the eyes of children.

Tickets are on sale at Eisenhower Box Office, (814) 863-0255 or in the Thespian Box Office in the HUB, (814) 865-9461.

Faculty work featured

The annual College of Arts and Architecture School of Visual Arts faculty exhibition and opening reception will begin at 7 p.m. Saturday, Nov. 11, in the Zollner Gallery, 101 Visual Arts Building on the University Park Campus.

Charles Garoian, associate professor of art education, will present a multi-media performance in the breezeway of the Visual Arts Building at 8 p.m. Saturday, Nov. 11.

The faculty exhibit will display recent work by the School of Visual Arts faculty members from all Penn State locations. It will feature ceramics, sculpture, graphic design, painting, drawing, metals, photography, printmaking and papermaking. The exhibition continues through Tuesday, Dec. 5.

Zollner Gallery is open 9 a.m. to 5 p.m. Monday through Friday; 11 a.m. to 4:30 p.m. Saturday; and noon to 4 p.m. Sunday.

The exhibition is free to the public.

Concert Choir and Chamber Singers

The Penn State Concert Choir and the Chamber Singers will present a fall concert, "Greetings and Anniversaries" at 8 p.m. Saturday, Nov. 11, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. The ensembles, conducted by School of Music Professor D. Douglas Miller, will perform the on-campus concert.

The Concert Choir is a select ensemble of 64 singers. The choir has represented Penn State for several performances, including a performance in Avery Fisher Hall with Michael Tilson Thomas and the New World Symphony, and an invited performance in Washington, D.C., before the Eastern Division Conference of the American Choral Directors Association.

Ticket prices for Saturday's concert are \$4.50 for adults; \$3 for students. For advance ticket information, contact the School of Music Office,



International Ballet troupe

The Center for the Performing Arts presents the Central Ballet of China at 8 p.m. Friday, Nov. 10, in Eisenhower Auditorium on the University Park Campus. For ticket information, call (814) 863-0255 or (800) ARTS-TIX.

Room 233 Music Building, at (814) 865-0431. Tickets will be available at the door the night of the concert.

Jerry Gonzalez and the Fort Apache Band

Jerry Gonzalez and the Fort Apache Band will perform at 8 p.m. Saturday, Nov. 11, in Eisenhower Auditorium on the University Park Campus. The concert is sponsored by the College of Arts and Architecture's Center for the Performing Arts.

Jerry Gonzalez, a trumpeter-percussionist, is one of the best representatives of a talented pool of young Latin jazz musicians in the United States. He began playing with Dizzy Gillespie in 1971, and has worked with such stars as Tito Rodriguez, Eddie Palmieri and Tito Puente.

While many bands play jazz with a Latin flavor, Jerry Gonzalez and the Fort Apache Band combine jazz and Latin music idioms.

Tickets are \$17 for non-students; \$13 for students. For ticket information contact the Arts Ticket Center at (814) 863-0255.

Pennsylvania Dance Theatre

Pennsylvania Dance Theatre, Central Pennsylvania's only professional dance company, will present "Informance '95: A Creation in Our Town" with guest New York choreographer Colin Connor, Sunday Nov. 12, at 3 p.m. in the Playhouse Theatre on the University Park Campus. Mr. Connor's exciting creation of modern dance, set to music by the local ensemble Simple Gifts, honors the State College Centennial.

Tickets are \$10. Advance tickets are available at the Eisenhower Ticket Center Monday through Saturday 8:30 a.m.-4:30 p.m., or by calling (814) 863-0255. Tickets may also be purchased at the door. Half-priced student rush tickets go on sale one half hour before the performance.

Oriana Singers' concert

The Penn State Oriana Singers (formerly Women's Chorus) will present their fall concert, "There is Sweet Music Here," at 4 p.m. Sunday, Nov. 12, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The 65-voice choir, conducted by Lynn Drafal, will perform music of the 19th and 20th centuries.

Tickets for the Nov. 12 performance are \$4 for adults; \$2 for students, and will be available at the door the night of the concert.

Mallet Ensemble

The Penn State Mallet Ensemble, under the direction of Dan C. Armstrong, associate professor of music, will present its annual fall concert at 8 p.m. Monday, Nov. 13, in the College of Arts and Architecture School of Music Recital Hall.

Several student performers will be featured and the concert will include music for multiple marimbas, vibraphones, xylophones and glockenspiels.

The concert is free to the public.

Essence of Joy annual fall concert

Essence of Joy will present its annual fall concert at 8 p.m. Wednesday, Nov. 15, in the School of Music Recital Hall on the University Park Campus.

The theme for the concert is "Anticipation" and will include compositions celebrating Kwanzaa and traditional gospel music.

Essence of Joy is an auditioned choir of 35 singers. It was organized in 1991 to participate in the campus celebration of the annual Martin Luther King commemorative holiday. Anthony Leach, instructor in music, is the director for Essence of Joy.

Tickets for the Wednesday performance are \$4 for adults; \$2 for students. Tickets may be purchased at the door the day of the concert.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, November 9

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Hi-Lo's, a chamber ensemble from the Penn State Glee Club.

Lecture, 7 p.m., Ballroom C, Nittany Lion Inn. Anita Jones on "Engineering in the Fast Lane."

■ Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Teng-Pin Wang on "An Introduction to Sleeping Beauties."

■ Lecture, 7:30 p.m., Palmer Lipcon Auditorium. Paolo Pasolini on "Leopard at the End of Modernity."

HUB "Distinctive Styles," 8 p.m., HUB Follies. Jack Gladstone, Montana Blackfeet Indian, singer, storyteller.

Friday, November 10

■ Gallery Talk, 11:30 a.m., Christoffers Lobby, Palmer Museum. Jean Cadigan on "An Introduction to Sleeping Beauties." Also, 1 p.m., Lorie Mills on "An Introduction to Sleeping Beauties."

■ Gallery Talk, 3 p.m., Christoffers Lobby, Palmer Museum. Kay Picart on "Asian Art at the Palmer Museum."

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Central Ballet of China. For tickets call (814) 863-0255.

Penn State Thespians, 8 p.m., Schwab Auditorium. "Joseph and The Amazing Technicolor Dreamcoat." Also, Nov. 11 at 2 and 8 p.m., Call (814) 863-0255 for tickets.

Saturday, November 11

Veterans Day

Gallery Talk, 11:30 p.m., Christoffers Lobby, Palmer Museum. Cheryl Snay on "Looking at You: Portraits at the Palmer Museum."

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Allison Imford on "An Introduction to Sleeping Beauties."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Jerry Gonzalez and the Fort Apache Band. For tickets call (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Penn State Concert Choir/Chamber Singers. For tickets call (814) 865-0431.

Sunday, November 12

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "African Art at the Palmer Museum."

■ Film, 2 p.m., Palmer Lipcon Auditorium. Masala Women. Pennsylvania Dance Theatre, 3 p.m., Playhouse Theatre.

"Informance '95: A Creation in Our Town." For tickets, call (814) 863-0255.

School of Music, 4 p.m., Recital Hall. Oriana Singers. For tickets call (814) 865-0431.

Monday, November 13

Human Development and Family Studies, 4 p.m., 301 HUB. Roger Weissberg on "School-Based Programs to Promote Social Competence and Prevent High-Risk Behavior."

School of Music, 8 p.m., Recital Hall. Penn State Male Ensemble Concert.

Tuesday, November 14

"Brainstorming Session," 7 p.m., 112 Walker Bldg. Will examine issues surrounding freedom of discussion.

■ Art History, 8 p.m., Palmer Lipcon Auditorium. Marilyn M. Beaven on "Wheeled and Dealers: American Collectors of Medieval Stained Glass 1905-1930."

Wednesday, November 15

■ International Programs, 9:30 a.m., 222 Buckle. Micaela Amateau Amato on "Pilgrimages to Majorca, Mexico, Malaga, and Morocco: Exercising Ambiguity and the Condition of Exile." A discussion of her art works.

Labor History Workshop, 10 a.m., 102 Weaver Bldg. Nelson Lichtenstein on "Civil Rights Culture and the Eclipse of Job Rights in the American Workplace." Also, 4 p.m., 102 Weaver Bldg., on "Walter Reuther: His Life and Legacy." Call (814) 863-0417.

Artist Talk Series, noon, HUB. Fran MacEachern, a fiber artist, on "While My Quilts Are Generated By Very Personal Experiences, My Goal is that the Viewer Experiences at Least Part of the Feeling I Have for the Subject."

Center for Women Studies, noon, 120 Buckle Bldg. Mary T. Franks on "Issues of Women with Disabilities."

Green Architecture: Series on Designing with Nature, noon, 210 Engineering Unit D. Discussion on "Yurts." Call 865-4017.

■ Gallery Talk, 2:30 p.m., Christoffers Lobby, Palmer Museum. Efram Burk on "Wayne Miller's Hiroshima."

School of Music, 8 p.m., Recital Hall. Essence of Joy. For tickets, call 865-0431.



Ready to perform

The Blue Band, with feature twirler Christine Wolfe and drum major Darren Bennett, will hold Bandorama '95 at 8 p.m. Friday, Nov. 17, in Eisenhower Auditorium on the University Park Campus. In addition, the Symphonic Band will play a short pops concert. For tickets, call (814) 863-0255 or (800) ARTS-TIX.

Thursday, November 16

Engineering Education Expo, 10 a.m.-3 p.m., Kunkle Lounge and Hammond Bldg. More than 30 projects will be displayed.

Sigma Xi, noon, 305 HUB. Barbara Rolls on "Why Do We Choose the Foods We Eat?"

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Penn State Chamber Singers.

The Community of Remote Sensers, new interest group, 4 p.m., 514 Warkit. K.N. Bose on "Multiframe Image Processing: Problems, Progress and Future Directions."

The group consists of faculty, research staff and graduate students interested in remote sensing.

Visual Arts, 4 p.m., Palmer Lipcon Auditorium. Karen Kunc, printmaker/book artist.

■ Hiller, 6:30 p.m., Palmer Lipcon Auditorium. "Europa, Europa."

■ Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Jean Cadigan on "An Introduction to Sleeping Beauties."

Shaver's Creek, 7 p.m. Searching for the Wisdom in the "Wise Use" Movement. Call (814) 863-2000.

Friday, November 17

Demonstration Workshop, 9 a.m.-noon and 1:30-4:30 p.m., 216 Arts Bldg. Karen Kunc will demonstrate printmaking techniques. Also, Nov. 18.

■ Gallery Talk, 11:30 a.m., Christoffers Lobby, Palmer Museum. Jean Cadigan on "An Introduction to Sleeping Beauties."

Undergraduate Studies Brown Bag Advising Lunch, noon, 305 HUB. Garry Burkle on "Working with the Registrar's Office."

■ Gallery Talk, 2:30 p.m., Christoffers Lobby, Palmer Museum. David Grainger on "An Introduction to Sleeping Beauties."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Rodney Erickson on "Non-Profit Industrial Development Organizations: How Accountable Are They?"

Shaver's Creek, 7 p.m. Legends of the Night Sky. Call (814) 863-2000.

Center for the Performing Arts, 8 p.m., Schwab Auditorium. String Trio of New York with Anthony Davis, pianist. For tickets, call 863-0255.

University Resident Theatre Company, 8 p.m., Pavilion Theatre. "The Russian" by Cornelia Kuschner. Runs through Dec. 2. For tickets, call 863-0255.

School of Music, 8 p.m., Eisenhower Auditorium. Bandorama. For tickets, call 863-0255.

Saturday, November 18

Office for Minority Faculty Development Workshop, 9 a.m., 114 Kern Bldg. Robert A. Kivonen on "External Funding." For reservation, call (814) 863-1663.

1995 Holiday Ornament Sale, 10 a.m.-4:30 p.m., Palmer Museum. Also, Sunday, Nov. 19, noon-4 p.m.

■ Gallery Talk, 11:30 a.m., Christoffers Lobby. Debra Greenleaf on "African Headrests."

School of Music, 8 p.m., Recital Hall. Penn State Philharmonic. For tickets, call 865-0431.

Sunday, November 19

WISE Voices Workshop, 10 a.m., Keller and Mateer Bldgs. "Success Strategies for Women Graduate Students in Science and Engineering." Call (814) 863-9286, to register.

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Efram Burk on "Wayne Miller's Hiroshima."

■ Film, 2 p.m., Palmer Lipcon Auditorium. "Asante Market Women."

School of Music, 2 p.m., Recital Hall. Penn State University Choir. For tickets, call (814) 865-0431.

SEMINARS

Thursday, November 9

Ceramic Science, 11 a.m., 301 Steidle Bldg. Ahmed Amin on "Pyroelectric Imaging."

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. Jorge Pullin on "Self-Similarity in Critical Gravitational Collapse: Mostly a Flat Space Effect?"

Economics, 2:30 p.m., 413 Kern. KerryAnne McGarry on "A Flexible Form Non-Negative Regression Model Accommodating Zeros and Endogenous Switching."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Bill Wolf on "Processors are Getting Faster than Memories are Getting Faster."

Friday, November 10

■ Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. David Webster on "People in Time and Space at a Classic Maya Polity."

Agronomy, 3:35 p.m., 101 ASI. Doug Lind on "Effects of Earthworms on Turfgrass Seed Germination."

Philosophy, 4 p.m., 124 Sparks Bldg. Nancy Love on "Habermas and the Future of Philosophy."

Monday, November 13

Center for Gravitational Physics and Geometry, 3:30 p.m., 115 Osmond Lab. Richard Epp on "The Symplectic Structure of General Relativity in the Double-Null (2+2) Formalism."

Tuesday, November 14

Biology, 4 p.m., 8 Mueller Lab. Robert Finkelstein on "Head Development in Drosophila-The Roles of Orthodenticle, Hedgehog and Wingless."

Geosciences, 4 p.m., 26 Hostler. John Andrews on "Sediment Sources, Processes, and Chronology of Detrital Carbonates (Heinrich) Events: Labrador Sea, Labrador Shelf and Baffin Bay - Toward an Understanding of Ice Sheet/Ocean Interaction."

Wednesday, November 15

Gerontology Center, noon, 110 Henderson Bldg. Student GSA Presentations.

Thursday, November 16

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. John Whelan on "Generalized Quantum Mechanics of Non-Abelian Gauge Theory."

Economics, 2:30 p.m., 413 Kern. Xiaohong Chen on "Non-parametric Recursive Moment Estimation for Dependent Data."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Alan Edelman on "The Pentium Division Flaw."

■ Reflects an international perspective

See "Calendar" on page 10



This and up

Performance artist Charles Garoian opens the College of Arts and Architecture School of Visual Arts faculty exhibition with his creation "Confluences" on Saturday, Nov. 11 at 8 p.m. Dr. Garoian will perform in the breezeway of the Visual Arts Building on the University Park Campus. The faculty exhibition continues through Tuesday, Dec. 5, in the Zoller Gallery.

Calendar

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SEMINARS

Friday, November 17

Agronomy, 3:35 p.m. 101 ASI. John Achling on "Maize Response to Combined Drought and Root Rotworm Stress."

CONFERENCES

Friday, November 10

Pediatric Assessment, 100 attendees, The Penn State Scanton.

Saturday, November 11

Affirmative Action in Higher Education, 60 attendees, The Penn State Scanton.

Goat Health Conference, 110 attendees, ASI Bldg.

Sunday, November 12

Second Annual Pennsylvania Reading Recovery Conference, 500 attendees, The Penn State Scanton. Through Nov. 14

Monday, November 13

Computer Conferencing: Alternative to Lectures, 1 p.m., Studio D, Mitchell Bldg. Call (814) 865-4757 to register

Pasteurizer Operator's Workshop, 75 attendees, Nittany Lion Inn. Through Nov. 15

Tuesday, November 14

Elements of Coal Preparation, 15 attendees, The Penn State Scanton. Through Nov. 16

Thursday, November 16

Extending the Classroom, 75 attendees, The Penn State Scanton. Through Nov. 17

Seventh PA Blasting Conference, 350 attendees, The Penn State Scanton. Through Nov. 17

Men and Women in the Workplace, 75 attendees, The Penn State Scanton. Through Nov. 17

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m.

"Performance Today," Mon.-Fri., 9-11 a.m.

"All Things Considered," Mon.-Fri., 4-7 p.m.; Sat. & Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m.

"Fresh Air with Terry Gross," Mon.-Fri., 7-8 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein," Wed., 8 p.m.

"Cat Talk," Fri., 8 p.m. and Sun., 6 p.m.

"Living On Earth," Mon., 8 p.m.

"Inside Europe," Sat., 4:30 p.m.

"The Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

Art Alley Cases:

Sam Chaz, artist and wood burner. Portraits, still life, and architectural scenes on wooden canvas on display through Dec. 10

Art Alley Panels:

"This Is Our Yard," an AIDS awareness project, through Dec. 10.

Research Area:

Insect and nature photography by Scott Camazine, through Nov. 14.

Kern Exhibition Area

Basketry by Sherry Oberholtzer, through Dec. 12.

Jewelry by Denise Ariew, through Dec. 12.

Palmer Museum

■ "Sleeping Beauties: African Headdresses from the Jerome L. Joss Collection at UCLA," through Dec. 3.

■ "Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

■ "Wayne Miller, Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10, 1996.

Pattee

West Lobby:

Oil paintings by Eric Armusik titled "Why Me?", through Nov. 30.

Zoller Gallery

"School of Visual Arts Faculty Exhibition," Nov. 11 through Dec. 5.

■ Illustration of international perspective

TIPS

Information Penn State

Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather — 234; Arts Line — 345; University Calendar — 456.

Arts

continued from page 8

Odyssey on WPSU

"When is a book not a book?" asks Robert L. Patten, Rice University professor of English, on the next Odyssey Through Literature broadcast.

A book today is written by the author in privacy, notes Patten, who is author of *Dickens and his Publishers*. Whereas with Dickens, many of the novels that we know and read today in book form, first appeared in magazines. If one snippet of the book is published, and the next snippet has yet to be written, there are all kinds of feedbacks that the author, the publisher, the printer can get — including dramatizations.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Wednesdays at 8 p.m. on WPSU, 91.5 FM.

Bach's Lunch

The Penn State Chamber Singers, under the direction of Douglas Miller, professor of music, will perform for the Bach's Lunch concert series at 12:10 p.m. Thursday, Nov. 16, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The 20-minute concert is part of the free Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The Chamber Singers consist of singers selected from the Concert Choir. The majority of the singers are music majors in the School of Music.

The Chamber Singers and the Concert Choir will present their fall concert at 8 p.m. Saturday, Nov. 11, in the School of Music Recital Hall on the University Park Campus.

The audience is invited to take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided.

Bandorama '95

The Blue Band, with auxiliary groups and feature twirler Christine Wolfe and drum major Darren Bennett, will kick off Bandorama '95 at 8 p.m. Friday, Nov. 17, the evening before the Michigan game, in Eisenhower Auditorium on the University Park Campus. The performance is an annual event that will include Penn State school songs, music from the '95 fall-time shows and stadium favorites. The Symphonic Band will play a short pops concert of light selections.

All seats for the performance are reserved. Tickets are \$10 for adults; \$6 for students; and \$4.50 for children 12 and under. Group rates are available. For ticket information contact the Arts Ticket Center.

"The Illusion"

The University Resident Theatre Company of the College of Arts and Architecture Department of Theatre Arts will present the final production of its fall season, "The Illusion," under the direction of Lewis Magruder, at 8 p.m. Friday, Nov. 17. The performance continues through Saturday, Dec. 2, in the Pavilion Theatre on the University Park Campus.

The play, loosely based on the French classic by Pierre Corneille, is written by Pulitzer winning playwright Tony Kushner. It is set in a magician's cave, where an aging man seeks help to find the son he drove from home 15 years earlier. The magician obliges by conjuring visions of the son's romantic adventures as a disowned pauper.

All evening performances of "The Illusion" begin at 8 p.m. A matinee performance will be presented at 2 p.m. Saturday, Dec. 2.

Tickets are \$9.50 and \$8.50 for adults; \$7.50 and \$6.50 for students. For ticket information contact the Arts Ticket Center, at (814) 863-0255.

Annual holiday ornament exhibition

The Fifth Annual Holiday Ornaments Exhibition and Sale will be held from 10 a.m. to 4:30 p.m. Saturday, Nov. 18, and from 12 to 4 p.m. Sunday, Nov. 19, at the Palmer Museum of Art on the University Park Campus.

Original work by artists selected from across the nation will be available. A variety of media is represented, from turned wood to ceramic, glass, paper, wire, feather and metallic art.

A special preview and sale for members of the Friends of the Palmer Museum of Art, their families and guests will be held Friday, Nov. 17 from 7 to 9 p.m. Members should call (814) 865-7672 by Nov. 10 to indicate attendance. Non-members should call if they are interested in joining the friends or for more information.

The exhibition and sale, sponsored by the Friends of the Palmer Museum, is open to the public.

Technology classrooms seeing some growth in faculty interest

Technology classroom initiative

Interest by faculty members in technology classrooms continues to grow. The following is excerpted from the September 1995 Progress Report of the Technology Classroom Initiative.

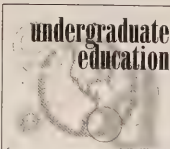
User's Guide

The most recent printed version of the *Technology Classroom User's Guide* was distributed in late August. For additional copies, contact Carol Phillips in the Center for Academic Computing (814) 865-0800; E-mail: cwp4@psu.edu.

The April version of the *User's Guide* is available at URL <http://jtlts.cac.psu.edu/TechClassroom.html>. The electronic version of the *User's Guide* will be updated continuously and will include color images of the classrooms. A printed guide will no longer be published.

Orientation sessions

Faculty members who were identified as teaching in the technology classrooms at University Park for Fall Semester 1995 were invited to a series of orientation sessions held before the beginning of classes. Attendance at the sessions, conducted jointly by a team from the Center for Academic Computing (CAC) and Audio-Visual Services, continues to be disappointing. Suggestions for increasing participation are welcome.



CAC staff support

Robert Mottern and Edward Eagles, former operators in the CAC, were hired as microcomputer system consultants during 1994-95. Realignment of their responsibilities has created additional opportunities for the continuation of the preventative maintenance program for technology classrooms.

In addition to the two consultants, Carol Phillips continues to devote a large portion of her temporary position to staff support of the Technology Classroom Initiative.

New Web page

Stan Diamond, manager of Audio-Visual Services, has developed a WWW page for AV Services. The new Web page is located at URL <http://www.libraries.psu.edu/avsl>.

Mobility of laptops

Several faculty members have expressed an interest in using their laptop computers in the technology classrooms. Provisions are being made for using laptops with any of the LCD or RGB projection devices.

A major difficulty is that different IP addresses must be assigned as laptops are being moved across networks. An ad-hoc committee is exploring ways to simplify the assignment of IP addresses and also is addressing related security concerns.

Engineering education innovations showcased

An autonomous robot, "enigmatic engines" and a sailplane are only some of the educational projects that will be displayed and demonstrated during the Innovation in Engineering Education Expo scheduled for Nov. 16 from 10 a.m. to 3 p.m. in Kunkle Lounge and Hammond Building on the University Park Campus.

Sponsored by the College of Engineering, the Leonard Center and

ECSEL, the expo will showcase innovative educational projects undertaken over the past few years by faculty, students and staff in the College of Engineering. These projects encompass new approaches to classroom teaching, curricular innovation, student roles in educational innovation and computers in the learning process.

"There has not been an opportunity in the past to showcase these

innovations," Thomas A. Litzinger, professor of mechanical engineering and director of ECSEL, said. "We would like the entire University community to see the variety of approaches we are using to enhance teaching and learning."

More than 40 projects will be displayed at the expo by representatives from University Park and several of the University's other locations.

CONTINUING DISTANCE EDUCATION

University to evaluate PBS distance education

University evaluation specialists will help the Public Broadcasting Service determine how the first year of its "Going the Distance" program has fared during a yearlong analysis funded by a \$67,000 grant.

The grant, awarded to the American Center for the Study of Distance Education in the College of Education, will enable researchers to evaluate "Going the Distance" — the first national distance education initiative that allows students to earn an associate of arts degree.

Project staff members will work in collaboration with PBS' Adult Learning Service unit to gather information about the experiences of selected institutions and public television stations participating in the Going the Distance program. They will identify the issues and questions that emerged during the first year of the program and examine the changes that occurred at the institutions as a result of delivering a degree program at a distance.

Information will be collected through interviews and focus groups. A case-study approach will be used to show the kinds of changes that occurred within institutions offering courses in the program. The project staff will report its findings to PBS and participating institutions in October 1996.

PBS launched Going the Distance in August 1994, with more than 60 colleges and universities and 22 public television stations nationwide participating. Currently, the associate degree program is offered at more than 100 institutions through 36 public TV stations in 27 states.

In the Going the Distance program, each institution retains academic control over the courses it offers. Institutions are able to customize their distance learning curriculum and establish degree requirements.

Distance Education Documentation Center now on Internet

Penn State's American Center for the Study of Distance Education has launched the North American Distance Education Documentation Center on the Internet, giving students and scholars around the world access to a database of articles, books, conference proceedings, journals and other print publications about distance education topics.

The documentation center is the first of its kind in North America, according to Peter S. Cookson, associate professor of education and professor-in-charge of adult education in the College of Education.

"As the field of distance education grows, the need for a reliable resource of distance education research and scholarship is increasing rapidly," Dr. Cookson said. "The British Open University has a documentation center that focuses on distance edu-

cation research and programs in the Commonwealth, but until now, there has been no such resource in the United States."

Dr. Cookson has been instrumental in developing Penn State's North American Distance Education Documentation Center, with support from the AT&T Foundation. He is working with Ellen Bunker, an adult education doctoral candidate who is serving as project assistant, to create a distance education resource that will be available electronically 24 hours a day.

The first phase of the project includes abstracts from all issues of the *American Journal of Distance Education*, published by the American Center for the Study of Distance Education. In the second phase, abstracts from other distance education journals will be added to the database. The third phase will

involve the addition of abstracts from papers presented during U.S. conferences in 1994 and 1995.

The North American Distance Education Documentation Center now has an author database of 1,300 names. Other database components include an accessions log, which lists all items that have been submitted to the center for inclusion in the database, and a documents database.

To access the documentation center's database of distance education abstracts, go to Gopher.cpsu.edu open "PSU Continuing & Distance Education Gopher," then open "Search ACSDS Abstract Catalog," type in a search word to begin searching the database. A World Wide Web site is under construction and will be available at <http://www.cde.psu.edu/DE/ACSDS/NADE.htm>.

LECTURES

Meeting provides chance to brainstorm

A "Brainstorming Session" for Penn State faculty, students and the community interested in examining the issues surrounding freedom of discussion, will be held from 7-9 p.m. Tuesday, Nov. 14, in 112 Walker Building on the University Park Campus.

The goal of the session is to use the results of the meeting to schedule a campus conference for next year on the ethics of expression.

The group hopes to discuss redrawing, or even erasing, battle lines in this intellectual debate.

Those planning to attend should prepare a one-page summary of their thoughts on such issues as: What has been the most difficult choice you've personally faced in a conflict over freedom of expression? Have your opinions changed over the past several years? Are you dissatisfied with the ways the lines have been drawn?

How would you describe the role of the artist in modern society? What are your fears in opening this subject up to public discussion? With whom would you most like to discuss these issues?

The group will also gather to assess the range of the community's concerns with freedom of expression, gather similar concerns together under major headings, speculate about ways to address these topics, agree on a forum or forums in which these issues can be explored in greater depth and select a committee of people who will be charged with the responsibility for creating those opportunities.

The meeting is free to the public. For more information contact Charles Garoian, associate professor of art education, at (814) 863-7307.

Art history lecture focuses on Medieval stained glass

Marilyn M. Beaven will present her lecture "Wheels and Dealers: American Collectors of Medieval Stained Glass 1905-1930" at 8 p.m. Tuesday, Nov. 14, in the Palmer Lipson Auditorium of The Palmer Museum of Art on the University Park Campus.

The lecture is part of The Art history lecture series, "The Fortune of Medieval Art in America," sponsored by the Institute for the Arts and Humanistic Studies, the Center for Medieval Studies and the Department of Art History. This lecture series is offered in connection with the upcoming exhibition "Medieval Art in America: Patterns of Collecting 1800-1940" which will be shown at the Palmer Museum from Jan. 8 to March 3, 1996 and at the Frick Art Museum in Pittsburgh during April and May.

Since 1985, Ms. Beaven has been a member of the *Corpus Vitreum* working as an editor for the four-

volume Checklist Series on the Medieval and Renaissance Stained Glass in American Collections published by the National Gallery of Art. Her particular interest is provenance research correlating information from sales catalogues, curatorial diaries, dealers lists and family histories. Much of the material she will present derives from that research. From 1990-94, she worked at the Cloisters, acting as editor for Hayward's *Corpus Vitreum*, *European Stained Glass at the Metropolitan Museum of Art*, New York.

The lecture series will expand upon selected topics regarding the fortune of medieval art in the United States, alluded to but not fully explored in the exhibition and its accompanying catalog. The final lecture in the series will be William Johnston, Henry Walters: The Elusive Collector" on Tuesday, Nov. 28.

The lectures are free to the public.

Author to talk about workplace revolution

Noted author Jeremy Rifkin will discuss the workplace revolution during a visit to Penn State on Monday, Nov. 20.

Mr. Rifkin will discuss his latest book, *The End Of Work: The Decline of the Global Economy and the Dawn of the Post-Market Era*, from 7:30 to 9 p.m. in the Deans Hall at The Penn State Scanticon. The lecture fee is \$10 per person.

Reservations can also be made for a reception and \$100 per plate dinner with Mr. Rifkin.

Mr. Rifkin is the author of 13 books on the impact of technological changes on the economy, the work force, society and the environment. He has lectured and been a resident scholar at more than 300 universities in some 10 countries in the past 25 years.

The End of Work, is the result of a three-year study of the changing conditions and nature of work in the Information Age. Mr. Rifkin holds a degree in economics from the Wharton School of Finance and Commerce of the University of Pennsylvania and a degree in international affairs from the Fletcher School of Law and Diplomacy at Tufts University.

In the mid-1970s, his books *Common Sense II* and *Own Your Own Job* were the first to popularize the idea of worker-owned and managed companies. Today, 25 years later, United Air-

lines and other large firms are being bought out by their employees, changing the way America does business.

Mr. Rifkin has been influential in shaping public policy in the United States and around the world. He has testified before numerous congressional committees and has had consistent success in litigation against the government to ensure responsible environmental policies on a variety of governmental and technological issues.

His unique perspective and social commentary have made him a frequent guest on numerous television programs, including Face the Nation, Nightline, MacNeil Lehrer News Hour, 20/20, Larry King Live, Firing Line, Donahue, The Today Show and Good Morning America.

The National Journal, among the nation's leading public policy journals, named him as one of 150 people in the U.S. that have the most influence in shaping federal government policy. He is founder and president of the Foundation on Economic Trends in Washington, D.C.

His visit is sponsored by the School of Hotel, Restaurant and Recreation Management and The Roy Foundation. To register for the talk or the reception and dinner, call 1-800-PSU-TODAY.

Discourse '95 will discuss the finer points of civility

Does civility mean civilized? Civic-minded? Courteous? Penn State Harrisburg's College Lecture Series — Discourse '95: Civility — will examine and define "civility" in a series of presentations Nov. 13 through 17.

The public event will involve college, community and academic lecturers. All events will be held in the Black Cultural Arts Center.

The series begins at 1 p.m. Monday, Nov. 13 with Don E. Eberly, founder and president of The Commonwealth Foundation, discussing "Building the Civil Society."

On Nov. 14 at 1 p.m., William M. Sullivan, professor of philosophy at La Salle University, will address "What Makes Civility Pos-

sible? Association and Institutions."

Richard S. Kordesh, an independent consultant and researcher, will focus on "Family Empowerment and Local Civility: Reflections on Institution Building in Harrisburg" at 1 p.m. Wednesday, Nov. 15.

On Nov. 16, Lavera Brown, Pittsburgh area consultant, community volunteer and social activist will lecture on "Civility, Race and Gender."

The series concludes at noon Friday, Nov. 17 with a faculty panel "Sizing Up Civility: Competing Interpretations." Taking part with Michael Barton, Alida Black, Robert Coleman and Clemmie Gilpin.

More Lectures

Artist from Nebraska to demonstrate her work

Karen Kunc, associate professor of art at the University of Nebraska at Lincoln, will present her work in a public lecture at 4 p.m. Thursday, Nov. 16, in the Palmer Lipson Auditorium of the Palmer Museum on the University Park Campus. Ms. Kunc will demonstrate her printmaking techniques in a workshop on Friday, Nov. 17 and Saturday, Nov. 18 from 9 a.m. to noon and 1:30 to 4:30 p.m. in room 216 Arts Building. Both are open to the public.

Ms. Kunc's complex and vividly colored prints and her innovations in woodblock printmaking have earned her international recognition. She has lectured and led demonstrations in places as diverse as Iceland, Finland, Germany, Italy, Japan and Bangladesh.

Her prints are included in many collections, notably the Smithsonian, The Victoria and Albert Museum, The Library of Congress and The Philadelphia Museum of Art. She is a 1995 Fulbright recipient, and among her achievements are recent grants and commissions from the National Museum of Women in the Arts and Rutgers Archives for Printmaking.

Village Voice writer to talk, show his film about politics

James Ridgeway, Washington correspondent for the *Village Voice*, will give a lecture and show his film, *Blood in the Face: White Power Politics*, tonight at 7 in Reed Lecture Hall at Penn State Erie, The Behrend College. Admission is free to the public.

The author of more than a dozen books examining political issues, Mr. Ridgeway produced his acclaimed documentary about the far right political movement with Kevin Rafferty and Anne Bohlen. He also wrote a book with the same name.

Mr. Ridgeway, a 1959 graduate of Princeton, is currently writing *Red Light*, a major study of the sex industry, and *Ethnic Nightmare*, an anthology of writers from the former Yugoslavia. He is appearing as part of the Creative Writers Series sponsored by the Division of Humanities and Social Sciences, its Creative Writing Program and the Clarence A. and Eugenie Baumann Smith Endowment Fund.

Latin American history is topic of Nov. 10 talk

The history of Latin America will be the topic of a presentation on Nov. 10 at the Penn State Abington-Ogontz Campus.

The free program, "Latin American History Through Its Art," will be held from 12:30 to 1:30 p.m. in 112 Woodland Building. This event is sponsored by the Abington-Ogontz Campus Multicultural Committee.

Jack Child, professor of Spanish and Latin American studies at the American University of Washington, D.C., will lead the program.

He has worked with the International Peace Academy, which is associated with the United Nations, on issues dealing with peace-keeping and confidence-building measures in Central and South America.

Awards

ACHE honors C&DE director of research and external relations

Donna S. Queeneey, director of research and external relations for Continuing and Distance Education, has received the 1995 Meritorious Service Award from the Association for Continuing Higher Education (ACHE).

She was honored by ACHE members for her "outstanding leadership and service to continuing higher education at Penn State and to ACHE."

Dr. Queeneey, who also is an affiliate associate professor of education, has spent more than 25 years in continuing higher education as a teacher, researcher and consultant. She has been involved in numerous research projects and activities at the state and national levels designed to address the education and training needs of adult learners.

Since 1991 as director of research and external relations, she has provided leadership in the field of continuing professional education, promoting the application of best practices and research findings to the lifelong education of professionals across disciplines. Among her many professional accomplishments are the creation of the American Society for Training and Development's Continuing Professional Education Network, which she founded in 1992 and co-chaired; and the establishment of the Harvard University/Penn State Leadership Institute for Continuing Professional Education in 1991. She is co-founder, co-director and a faculty member of the institute.



Donna S. Queeneey

This year, she was elected to a two-year term as a member of the National University Continuing Education Association (NUCEA) board of directors. In addition, she was a member of the NUCEA Executive and Professional Development Committee from 1991-94 and chair of the Division of Research in 1993-94.

At Penn State, she has served as a staff member and director of the Office of Planning Studies, where she assessed the educational needs of a wide variety of populations served by the resident and continuing education programs at many

campuses. She also was assistant director of the Continuing Professional Education Development Project, sponsored jointly by the W.K. Kellogg Foundation, Penn State and 14 state and national professional associations in the 1980s.

Dr. Queeneey is the author of many journal articles, monographs and book chapters, as well as the book *Assessing Needs in Continuing Education: An Essential Tool for Quality Improvement*, published in 1995 by Jossey-Bass Inc.

She is the recipient of a number of awards, including the Penn State Continuing Education Service to the Profession Award, NUCEA Continuing Professional Education Individual Service Award and American Association for Adult and Continuing Education Continuing Professional Education Medalion.

Professor wins engineering award

Jack H. Willenbrock, professor of civil engineering and director of the Housing Research Center, has received the Penruify Construction Research Award from the American Society of Civil Engineers.

He was recognized for his outstanding contributions to the advancement of construction engineering.

During Dr. Willenbrock's 27-year career at Penn State, he has influenced three major sectors of the construction industry. From 1972 to 1980, he was involved in theory development, training manual preparation and technology transfer activities for the emerging technology of statistically based performance specification for construction projects.

Dr. Willenbrock also was instrumental in the for-

mation of a Power Plant Construction Advisory Group to Penn State in 1975.

The third sector of the construction industry benefiting from Dr. Willenbrock's activities is the residential building construction industry. He was appointed as Penn State's Bernard Hankin Professor in residential building construction in 1984.

Dr. Willenbrock was appointed director of the newly formed Housing Research Center in 1988, and led it through its first seven formative years. He also served as the first "scholar-in-residence" at the National Association of Homebuilders (NAHB) and the NAHB Research Center in Washington, D.C., from 1992-93. He now is completing a textbook, *Residential Building Design and Construction*.

Certificate program earns recognition

The Human Resource Certificate Program, developed for top executives in Mexico, was recognized by the International Continuing Higher Education Committee.

"Managing Human Resources in the 21st Century" was custom-designed by a team of management development faculty including Don Turner, Dennis McCartin, John McKissick, Albert Mastantuono and Harold Johnson, in collaboration with Richard Huntley from E-Systems in Texas.

The program consisted of six modules focused on human resource issues and challenges. The first five modules were taught in Mexico and the sixth

module was taught at Penn State. An average of 20 to 30 executives representing business and industry in Mexico City have participated in the program for the past four years. The program lectures were combined with discussions, experiential learning and exercises.

Created in 1915 by the Board of Trustees to assist state industries, Management Development Programs and Services has since served clients in the public and private sector. The program is dedicated to providing organization development and human resource education services to organizations and their members.

News in Brief

New group to meet

A newly formed interest group, The Community of Remote Sensors, will meet to discuss issues of common concern from 4-5 p.m. Thursday, Nov. 16. The meeting place is tentatively set for 514 Wartik, but participants should call (814) 863-7688 to confirm. The group consists of faculty, research staff and graduate students interested in remote sensing.

N.K. Bose, professor of electrical engineering, will present "Multiframe Image Processing: Problems, Progress and Future Directions."

"Depressed" people needed for study

Most people feel depressed at some time or another in their life, but some experience major depression.

A study designed to help people with this problem currently is being conducted. You may be experiencing major depression if you:

1. Feel depressed most of the day, nearly every day;
2. Experience a marked decrease of interest and pleasure in almost all activities;
3. Feel fatigue or loss of energy most of the day;
4. Feel worthless or excessive guilt; and
5. Feel a decreased ability to think or concentrate.

If you believe you are experiencing major depression and would like to be considered for a study being conducted by the Department of Psychology, please call Charles Hines at (814) 863-4833.

Subjects (ages 18-55) included in the study will receive 12 to 20 free sessions of individual psychotherapy, either immediately after being assessed for depression or 12 to 20 weeks later.

Subjects will also be asked to complete various questionnaires during and after treatment.

A brief telephone interview will help with a preliminary determination of the suitability of this treatment for you.

If you cannot be included in this treatment, alternate referral suggestions will be made. Strictest confidentiality is maintained.

CARPOLERS

Looking to carpool from Centre Hall to University Park. Work hours are 8 a.m. to 5 p.m. Monday through Friday. Call Darlene at 865-1834.



Blood drive

Shelly Ogline, Red Cross student president, left, and publicity chair April Young hang a banner at the corner of College Avenue and South Allen Street at the gates of the University Park Campus announcing the second annual Penn State-Michigan State blood donor challenge. Challenge drives will be held from 10 a.m. to 4 p.m. Nov. 13 at Kern Building, and 10 a.m. to 4 p.m. Nov. 14, 15, 16 and 20 at the Hetzel Union Building. The winner will be announced in a special ceremony at the Penn State-Michigan State football game at Michigan State on Nov. 25. To make an appointment to donate, call 237-2713.

Photo: Greg Grieco

Faculty/Staff Alerts

Tax reminder

All non-resident aliens claiming exemption from federal tax, based on a tax treaty, need to complete IRS Form 8233 each tax year. A copy of the I-20 or IAP-66 (whichever is applicable), plus a copy of the Revenue Procedure 87-9 (for lecturers, researchers or teachers) or Revenue Procedure 87-8 (for students, trainees or graduate assistants) both need to be attached to the IRS Form 8233.

The forms can be obtained from either the Payroll Office (307 Rider Building on the University Park Campus), or the Office of International Studies (222 Boucke Building).

These forms must be completed and received by the Payroll Office by Dec. 1. Failure to do so may cause you to be taxed incorrectly during the 1996 tax year. If you have additional questions, contact the Payroll Office at (814) 865-7621 or at payroll@psu.edu.

Name change

The Administration of Justice Program has been renamed the Crime, Law and Justice Program (CLJ). The graduate degree will carry this new name. The undergraduate degree and undergraduate program will retain the old name, administration of justice.

New members sought

The Penn State Faculty Staff Club, three years old and 525 members strong, is seeking new recruits. All Penn State faculty, staff and retirees are eligible for enlistment. Faculty Staff Club is an ideal way to get better acquainted with your University

colleagues in the relaxed social setting of the Nittany Lion Inn on the University Park Campus.

Membership provides your "passport" to delicious all-you-can-eat buffet lunches—only \$4.99 including beverages, tax and tip. And don't miss the Third Thursday events: Oktoberfest, Austro-Hungarian Celebration, English Pub Night, Caribbean Cruise, Mardi Gras and more. For more information, call the club office in 110 HUB at (814) 865-7590.

Receiving and reviewing protocol submissions

All human subjects submissions requiring a full review must be received by 5 p.m. Dec. 7. These submissions will be reviewed by the Institutional Review Board on Dec. 19.

All other human subjects, animal and biosafety submissions must be received by 5 p.m. Dec. 13, to be reviewed before the holiday break.

The Office for Regulatory Compliance will operate on its regular schedule starting Jan. 2.

Please call (814) 865-1775 for more information.

Adult Literacy Action

Adult Literacy Action (ALA) of Penn State Beaver Campus will hold a two-day tutor training workshop on Nov. 13 and 15 from 8:30 a.m. to 4:30 p.m. Both sessions will be held in the Adult Literacy Action office in the professional building at 336 College Ave., Beaver.

Volunteer tutors will be trained to

teach reading, writing, mathematics and survival skills to adult learners. Upon completion of this workshop, volunteer tutors will be awarded national certification in the Laubach method of adult instruction.

Advance registration is required. To register or obtain additional information, call Melanie Libby, or Lubi at the Adult Literacy Action office at (412) 773-7810.

Courses available

Weight Watchers AT WORK A special holiday series of Weight Watchers at WORK program begins on Wednesday, Nov. 23. Meets Wednesdays from Nov. 23 through Jan. 10 except Dec. 27, from noon to 1 p.m. in the Paul Robeson Cultural Center. Cost: \$80.50, reimbursable for HMO members; split payment plan or VISA/MasterCard accepted.

To register, contact Jan Hawbaker at 865-3085 or JQH3@psuadmin.

HIV/AIDS: Network Update Designed for members of Penn State's "You Can Ask Me About AIDS" Network, this session will discuss new information and issues related to HIV/AIDS, as well as explore ways to improve the effectiveness of the Network. Meets Monday, Nov. 20 from 12:30-2 p.m. in 16 Ritenour Building. Cost: None. Participants are invited to attend a meeting of the HIV/STD Consortium which precedes the session from 11 a.m.-12:30 p.m.

To register, contact Jan Hawbaker at 865-3085 or JQH3@psuadmin.

Fishy detective work may shed light on an eel of a story

A University research project focused on bottom-dwelling, plankton-eating, rasp-mouthed creatures called lampreys uses state-of-the-art computer technology to analyze and interpret decades-old data and examine the status of lampreys in Pennsylvania's water systems.

The three-year study, funded by the Wildlife Conservation Fund, centers on six species of lampreys native to Pennsylvania. Historical detective work and data analysis will document whether populations of the eels have increased, declined or remained the same compared to populations documented before most of the state's lampreys were killed in the 1960s.

Native lamprey populations dropped in the 1960s in response to a campaign to eliminate sea lampreys from the Great Lakes. Sea lampreys invaded the Great Lakes system and preyed on game fish, lake trout in particular.

"Sea lampreys are sort of a combination of predator and parasite," Jay R. Stauffer, professor of ichthyology in the School of Forest Resources, said. "They attach themselves to fish, rasp a hole into the fish and then suck out all the body fluids."

In an effort to eliminate this pest, the U.S. Fish and Wildlife Service tested more than 6,000 chemical compounds before TFM, a lampicide still in use today, was developed. The lampicide, applied extensively in the Great Lakes tributaries, decimated sea lamprey larvae.

"Unfortunately, lampicides also killed many of Pennsylvania's six native species, five of which are nonparasitic," Elisabeth Hale, graduate student in ecology, said. "The goal of this study is to examine the impact of the lampri-



Jay R. Stauffer, professor of ichthyology in the School of Forest Resources, and graduate student Elisabeth Hale examine lamprey eel samples. They worked together on a project to examine the status of lamprey eels in Pennsylvania.

Photo: Greg Grieco

cide on the native Pennsylvania lamprey populations."

Ms. Hale says her research also could indicate that lampreys play a role in water quality in Pennsylvania rivers. "Lampreys are filter feeders," she said. "They remove a lot of impurities in water just by feeding. They may be an excellent indicator of water quality."

Ms. Hale has spent the last year combing through the historical records from fish museums at the Ohio State University, the Academy of Natural Sciences in Philadelphia, the Smithsonian Institution's Museum of Natural History in Washington, D.C., and the Penn State Fish Museum. She is documenting the date, location, species and number of lampreys collected in streams in Pennsylvania before the introduction of lampicides. Some of the data she found dates back to 1886.

"Without the historical collections, I could not have pieced the story together," Ms. Hale said. "I researched publications

going back to 1873. My study underlines the importance of publishing research findings because past journals allow today's researchers to draw conclusions from data collected decades ago."

Ms. Hale is currently plotting the historical collection sites on a computerized map of Pennsylvania streams. In 1996 she will return to each historical site — there are about 150 — and take new samples. In addition to tracking down each site, she must also re-create the sampling methods the original researchers used.

By using a computerized mapping process called a Geographic Information System (GIS), Ms. Hale will overlap the map of historical sites with a map of her new samples from the same sites and a map of the areas treated with lampicides. The computer will allow Ms. Hale to instantly analyze each site to determine whether lamprey populations have bounced back, declined or remained the same.

In addition to sam-

pling for lampreys, Ms. Hale will also note the number of spawning lampreys at each site in the spring. She will revisit those sites in the summer to sample for lamprey larvae. "If there are large numbers of lamprey larvae, and yet a decline in the numbers of adult lampreys in areas that have not been treated with lampicide, then this could indicate that other factors, such as habitat degradation, should be examined," Ms. Hale said.

"Going back into the museum files was sort of like interviewing all the suspects in a detective story," Ms. Hale said. "Going out to the sites and mapping the data are much like searching for clues and then presenting your case."

"With the current emphasis on biodiversity, we want to determine what species are needed in a particular area," Dr. Stauffer said. "By finding out what their present status is, we can design a recovery plan that can reintroduce lampreys to their native habitat."

— John Wall

Research



Hospital
inventory
strategies
examined

What's more important — the cost of supplies, or the cost of maintaining a large inventory of those supplies? That's the question hospitals must ask as they decide whether they want to switch to "stockless" or "just-in-time" systems of materials management.

That's the finding from a Penn State computer model developed from surveys of both hospital supply managers and hospital supply distributors, including data collected at storage sites and distribution facilities.

Management of materials can account for up to 30 percent of a hospital's administrative costs.

When hospitals switch to "stockless" or "just-in-time" systems, distributors raise their markup on supplies to cover the costs of increased duties and deliveries.

"Markup is an additional cost for hospitals, and they face a bit more risk of running out of inventory," said Jose Ventura, professor of industrial engineering. "But there are big savings in inventory, full-time employees and warehouse space."

Researchers tested the computer model on data from The Milton S. Hershey Medical Center in Hershey, Pa. The model covers medical and surgical supplies, but not pharmaceuticals.

Frus Egelbu, associate professor of industrial engineering developed the model with Ventura, Catherine Harmonosky, associate professor of industrial engineering. H.J. Sommer III, professor of mechanical engineering, and Chung-Te Wu, post-doctoral researcher.

In related work, several of the researchers developed a computer model to help distributors gauge their options for maximizing profits.

In a case study published in the *International Journal of Industrial Engineering*, Dr. Ventura, Dr. Harmonosky, Dr. Egelbu and M.X. Weng, assistant professor of industrial engineering at the University of South Florida, found that the percentage markup over the price of an item must be greater than 2.68 percent and 4 percent for "just-in-time" and "stockless" hospitals, respectively, for distributors to make additional profit.

The results indicate that the distributor model can support management decisions, Dr. Ventura said.

— Scott Turner

ATHLETICS

A regular column provided by Intercollegiate Athletics

Football video collection available

Collegiate Sports Partners has released a three-tape video collection that focuses on outstanding plays, players and coaches from Nittany Lions' football history. ABC Television play-by-play announcer Keith Jackson hosts the series. The tapes are on sale at the Penn State Bookstore or by calling 800-809-1000.

Comeback athlete

Women's volleyball player Terri Zemaitis of Downers Grove, Ill., is the college woman recipient of this year's Breathe Right Comeback Athlete Award given by *Training and Conditioning Magazine*. Terri had back surgery prior to the 1994 season but came back to help the Lady Lions reach the NCAA semifinals and achieve an outstanding 31-4 record.

Appointments

Jennifer Wheaton, a 1991 Penn State graduate, has been named athletic and recreation assistant. Ms. Wheaton, who has a master's degree from the University of Illinois and served as an intern with the United States Olympic Committee, will work in events management.

Lorri LaRowe has been named restricted earnings coach in women's cross country and track and field. She is a 1984 graduate of the University of Texas and was head strength and conditioning coach at Texas from 1987-89.

Obituaries

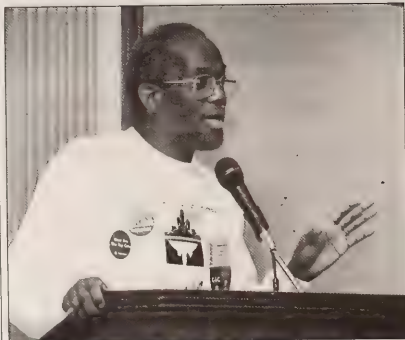
William Fetcenko, residence hall maintenance worker, Housing and Food Services, died Sept. 7 at the age of 77. Began work at the University on Dec. 6, 1961; retired June 15, 1978.

S. Bernice Fleming, admissions counselor in Admissions, Records and Scheduling, from Sept. 1, 1940 until her retirement Dec. 1, 1974; died Aug. 17 at the age of 80.

Marie I. Hartel, senior research technician, The Hershey Medical Center, from Feb. 27, 1989; died Sept. 29 at the age of 44.

Albert S. Kerstetter, residence hall project worker, Housing and Food Services, from Oct. 16, 1949, until his retirement Aug. 1, 1980. He died Aug. 30 at the age of 71.

Andrew B. Kopchik, utilities analyst, Office of Physical Plant, from Feb. 13, 1961, to March 31, 1990; died July 17 at the age of 64.



Photos: Annemarie Mountz

CIC fall conference

The annual Committee on Institutional Cooperation Fall Fellows Conference was held Nov. 3-5 at the Nittany Lion Inn on the University Park Campus. This marked the first time the conference was held at Penn State.

Above, CIC Fellows Sherry Martin, studying political science at the University of Michigan, left, Shawn Sanders, studying folklore at Indiana University, and Miguel Angel Vázquez, studying Spanish and Arabic literature at Indiana University, were among the many participants to attend the weekend conference.

Left, Ronald R. Smith, director of the CIC Predoctoral Fellowships Program, gave the welcome address on Nov. 3.

The CIC, with headquarters in Champaign, Ill., is the academic consortium of the Big Ten universities and the University of Chicago. Its programs and activities extend to all aspects of university activity except intercollegiate athletics. The Predoctoral Fellowship Program began in 1978 to enable graduate students at CIC-member schools to interact with and learn from peers and faculty at the other member schools.

PENNSTATE INTERCOM

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INTERCOM

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"It's the most important thing I've seen at Penn State in three years."



Photo: Greg Grieco

Taking a stand

A crowd of about 1,000 people on the University Park Campus listen as speakers discuss and urge listeners to take a stand against intolerance.

Rally sends powerful message

In a show of solidarity, about 1,000 students, faculty, staff and community members gathered on the University Park Campus Nov. 10 to take a stand against racism and intolerance.

In an hour-long rally on the steps of Schwab Auditorium, speaker after speaker denounced the acts of intolerance that have happened on campus and in the community in recent weeks. Several incidents of vandalism involving spray-painted or drawn swastikas and racial slurs have occurred.

Speakers, who included victims of intolerant acts, student leaders, faculty, administrators, community leaders and the University president, urged community members to speak out against injustices and to treat others with respect and civility.

More inside

For a separate story on hate groups, turn to page 4.

"This is not so much a rally against intolerance, as it is a rally in support of community," Terrell Jones, deputy vice provost for educational equity, told the crowd. "It's not what we do during this rally that's important. What's important is what we do after this rally."

Organizers called the rally a jumping off point — an important step in unifying, educating and actively involving the community.

Noah Chandler, research associate with the Center for Democratic Renewal in Atlanta, said it is important for a community to immediately address what initially may seem like random acts of racism or intolerance.

See "Rally" on page 3

Penn State No. 1 in attracting SAT scores from college-bound

Out of 5,157 possible choices, more college-bound high school seniors earmarked Penn State to receive the results of their Scholastic Assessment Test — putting the University at the No. 1 spot in the nation for unsolicited SAT scores.

This year, 46,746 members of the class of 1996 designated Penn State as one of the institutions to receive their test scores, while 44,452 seniors selected the University of California at Los Angeles and 39,939 named the University of California at Berkeley as one of their choices.

The SAT, administered by the College Board, is one of two widely used college admissions tests. More

See "SAT" on page 3

Need help?

Tap into the GURU

No one likes a "know-it-all," but wouldn't it be nice to have someone who could give quick answers to those nagging questions that aren't particularly difficult to solve but require you to sift through manuals or piles of policies to find the answer? Someone who could rapidly pinpoint the information you need and back it up with solid data? Someone like ... a GURU.

Thanks to the work of a team in Systems and Procedures, Penn State now has its own GURU — a World Wide Web site which houses a collection of reference information used frequently by Penn Staters.

GURU, which actually stands for General University Reference Utility, is intended to be a one-stop electronic shopping place for Penn State employees who are trying to locate information about everything from the University's budget policy to payroll procedures to travel guidelines. It includes listings for traffic violations, complete with penalties, a directory of properties at the University Park Campus that are leased by the University and payroll schedules for both employees and graduate assistants. It is now the most comprehensive

See "GURU" on page 3

Inside



Slovenly Peter

To commemorate the 150th anniversary of the first publication of *Slovenly Peter*, a best-selling German children's book, the Rare Books Room of Pattee Library on the University Park Campus is hosting an exhibit. See Arts page 8 for details.



Lean genes

Birds whose genes are lean might be the best flyers. Researchers at Penn State are investigating it. Turn to page 11 for more information.

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DIVERSITY

Video helps dispel stereotypes, promote cultural understanding

With a Latino population of nearly 300,000, Pennsylvania ranks second to New York among northeastern states in the number of Latino residents. According to census figures, Pennsylvania's Latino population increased 51 percent between 1980 and 1990. Although a large number of these residents live in Philadelphia, a sizable and growing number are settling in the state's smaller cities and towns.

"In some cases, the rapid influx of Latino families into predominantly white, traditional communities has led to misunderstandings and stereotypes," Katherine Fennelly, professor and head of agricultural and extension education in the College of Agricultural Sciences, said. "Overcoming these difficult social and cultural obstacles will require understanding and cooperation among diverse groups."

To help foster such understanding, Dr. Fennelly and Patricia Mulkeen, a postdoctoral scholar in agricultural and extension education, produced a 28-minute video titled "Aspiraciones: The Lives and Dreams of Latinos in Pennsylvania."

"The purpose of the video is to dispel stereotypes by introducing the viewer to the characteristics and dreams of a wide variety of Latinos, including professionals, students, farmworkers, pastors, family members and retired senior citizens," Dr. Fennelly said.

"The general public is the primary audience, but the video also will be

To order

The video "Aspiraciones: The Lives and Dreams of Latinos in Pennsylvania" and accompanying educational materials are available for \$20 per copy (\$15 each if ordering 10 or more). For more information, call (814) 865-1688.

Proceeds from sales of the video will provide financial assistance for Latino students at Penn State.

useful for educators to introduce discussions of diversity," she said. "Latino youths could benefit as well by learning about successful individuals who can serve as role models."

Proceeds from sales of the video will provide financial assistance for Latino students at Penn State.

Among Pennsylvania counties, Philadelphia County has the highest percentage of Latino residents at 5.6 percent, followed by Lehigh County (5.2 percent), Berks County (5.1 percent) and Lancaster County (3.7 percent).

These county-wide percentages are deceptive because Latino populations often are highly concentrated within particular communities," Dr. Fennelly said.

At 21 percent, Lancaster is the Pennsylvania city with the highest proportion of Latino residents. Reading is next at 19 percent, followed by Bethlehem (13 percent), Allentown (12 percent) and Harrisburg (8 percent).

"Because Latino residents tend to be young adults, and because they have larger families than non-Latinos, the number of Latino children as a percentage of school enrollments is even more dramatic in many of these communities," Ms. Mulkeen, who is now at West Virginia University, said.

The median annual household income for Latinos in Pennsylvania is about \$11,000 lower than for whites. Since poverty and lower educational achievement often go hand-in-hand, school drop-out rates are a major problem facing Latino youths.

"Even at younger ages, Latino children are more likely to be held back in school because of school transitions and language problems," Ms. Mulkeen said. "They also may be subject to discrimination because of language, skin color and cultural differences. In addition, many Latino youths may have educational difficulties because they assume adult responsibilities such as taking care of younger siblings, translating for non-English-speaking parents and working to help support the family."

Dr. Fennelly said because of these barriers, there is an urgent need for programs to address the special needs of Latino youths.

"But it's important to remember," she said, "that despite the challenges faced by Latino youths and their families, many are doing extremely well — as students, as professionals and as family and community members."

—Chuck Gill

Nomination deadline draws near for award

The Dec. 8 deadline for submitting nominations for three international awards is nearing. The awards, which each carry a \$1,000 stipend and certificate of recognition, will recognize the efforts of one undergraduate student, a graduate student and a faculty or staff member who have contributed significantly to the international mission of the University.

Application and nomination, plus all supporting material, must be received in 115 Arts Building on the University Park Campus by Dec. 8. For more information about the criteria for each award or to request application/nomination forms, contact Edward V. Williams at (814) 863-0408. In addition to Dr. Williams, associate dean for Research and Graduate Studies, College of Arts and Architecture, members of the 1995/96 awards selection committee are: James B. Stewart, vice provost for educational equity; Shannon Delany, undergraduate student, biology; Carmen Millan de Benavides, graduate student, Department of Spanish, Italian and Portuguese; and Collins Airhengenbuwa, head, Department of Health Education.

News in Brief

Summer calendar to change

The academic calendar for Summer 1996 for the University Park Campus only is being altered from what was originally published on page 3 of the 1995-96 *Baccalaureate Degree Programs Bulletin*. The changes to the calendar are being made to accommodate a substantial number of incoming students who would not have been able to attend summer sessions because the starting dates listed precede high school graduations, particularly for students in several northeastern states. To make summer admission possible for these students, the following changes have been made:

Both the eight-week and six-week summer sessions will begin one week later than was previously scheduled. The correct schedule follows:

- Eight-week session:**
Arrival day is June 9
Registration deadline is June 11
Classes begin June 12
Classes end Aug. 7
- Six-week session:**
Classes begin June 26
Classes end Aug. 7
- Final exams:** Held Aug. 8-9.
— Note: The final exams schedule decreases from three days to two days.

— Commencement will be held on Saturday, Aug. 10, as scheduled. However, diplomas will not be distributed at this ceremony. Instead, they will be mailed to students afterward.

Efforts should be made to assist students who are impacted significantly by any of these changes.

Professional Women at Penn State

On Tuesday, Nov. 21, from noon to 1 p.m., members of Professional Women at Penn State will meet in 212 Eisenhower Chapel on the University Park Campus. Karen Wagner, manager of marketing and customer service for Business Services, will present an overview of Document Services: printing, copying, copyright clearance, addressing and mailing services for the University community. Learn more about new directions and innovations in the era of electronic document delivery and bring your copyright questions. Guests may bring a brown-bag lunch. All University employees and students may attend.

Science writers

S. Blair Hedges, assistant professor of biology, will lead a lunchtime roundtable discussion hosted by the Penn State Chapter of the National Association of Science Writers, noon Wednesday, Nov. 29, in 114 Kern Building. He will discuss his experiences with

the popular press and his views about its science reporting. Dr. Hedges studies vertebrate evolution, biogeography and biodiversity.

NASW lunchtime programs are open to anyone interested in science communication. For more information, contact Scott Turner at (814) 865-9481 (or E-mail stx11@psu.edu).

Festival of Trees

A Centennial Festival of Trees will be held from 11 a.m. to 7 p.m. daily from Nov. 26 to Dec. 6 in the Agricultural Arena on the University Park Campus. The State College Centennial Commission will host the event as part of the yearlong centennial celebration.

In addition to decorated holiday trees, there will be a display of winter theme quilts, a holiday crafts show in the Grange Mezzanine and a tea room where visitors can sit to enjoy holiday pastries and tea while being entertained by musical groups.

The Penn State Forestry Society is providing the trees for the festival and will sell holiday trees to the public. The Horticulture Club is helping to design the show and will sell poinsettias. For more information, including details about donating a tree for display or sale, please contact Lucene Frantz, Centennial Commission executive director, at (814) 234-7105.

SAT

continued from page 1

than 1 million students take the SAT each year. The College Board will send SAT results for free to up to four institutions of the student's choice.

"I see this as an excellent indicator of the academic reputation of the University and the high standing it has among students who are nearing the end of their high school career and considering colleges and universities across the country," John Romano, vice provost for enrollment management and administration, said. "We've always been in the top five with respect to unsolicited SAT scores and it's encouraging to see that we have been steadily moving up in those ranks."

Dr. Romano pointed out that not only is Penn State attracting a larger number of students, it is also attracting students of a higher calibre. As proof, he said that in 1995, 182 freshmen who entered the University were ranked No. 1 in their class. That's a 24 percent increase over 1994 numbers. In addition, 2,352 of the students who applied for admission this past year had SATs of 1,300 or higher. The national average for an SAT score is 910.

"Although the best single indicator of the future academic success of a student is that student's high school academic performance, the SAT is still a factor," Dr. Romano said. And the more SATs received,

1995 TOP TEN PROFILE

Institutions Receiving SAT Scores

1 Penn State	46,746
2 Univ. of California—Los Angeles	44,452
3 Univ. of California—Berkeley	39,939
4 Univ. of Texas—Austin	38,251
5 Boston University	36,515
6 Florida State	36,152
7 Univ. of North Carolina—Chapel Hill	35,279
8 University of California—San Diego	32,387
9 Texas A&M	32,189
10 Cornell	32,175

Source: College Board

the larger the pool of candidates for admission.

Ken Hartman, director of admissions and guidance services for the College Board, said the SAT profiles on institutions compiled by his agency should be used by institutions as a guide in their own strategic planning.

"We actually compile these to give institutions an indication of how they may be faring in comparison

with other colleges or their competitors," he said. "The real value for colleges and universities in this report is to see if they have changed from the previous year. If they have gone up, then they must be doing something right. It's a chance to evaluate some of their programs and plans and an opportunity to look at what other institutions might be doing more successfully."

Dr. Romano agreed and said obviously not every SAT score will result in an application, but the fact that an SAT score was sent is a good indicator of the University's reputation and a chance for Penn State to get the student acquainted with the institution.

"As soon as we receive an SAT score, we share information with the student—including an application and view book—and provide them an opportunity to apply for admission," he said.

Today, students can apply for admission through a number of avenues other than U.S. mail. A student may complete a Windows or Macintosh diskette or can find an application through the Internet on the home page of the Office of Undergraduate Admissions.

This past year, Penn State received 44,315 applications for admission. Of that number, 13,777 were made offers to attend University Park; 16,056 received offers to attend a Commonwealth Campus; and 3,129 were offered acceptance to Penn State Erie, The Behrend College.

GURU

continued from page 1

hensive source of corporate policies that the University maintains.

Located at [URL http://guru.psu.edu](http://guru.psu.edu), GURU appears on the screen as a pot-bellied, pointy-hat wearing, bearded little man. But despite this comical appearance, GURU is taking care of business for Systems and Procedures—the office responsible for publishing the University Policy Manual, the General Forms Usage Guide and various other information about University policies and procedures.

"The cost of paper is increasing almost daily and instead of having reams of paper that contained information we were not able to update regularly, we decided an electronic alternative was the best answer," Russ Rossman Jr., senior procedures specialist, said. "Users like the look and feel of GURU. They can electronically cut and paste policies that they need to include in memos, things are easily accessible right on the desktop and it links to other helpful sites. We went to great lengths to make sure there was a lot of cross referencing to these documents."

"Eventually, we plan to incorporate a keyword search function that will make it even easier for people to find what they're looking for."

In addition, GURU consists of seven sections of information: travel, finance, payroll, purchasing, safety, administrative and budgeting, all listed in detail by title and policy number for easier accessibility.

Dean Murray, manager of Systems and Procedures, said although his office publishes the manuals containing more than 200 University policies and at least 150 procedures, it is still inundated with

calls from employees who either don't know where to look for the information or don't know exactly what they're seeking.

"We are called from all fronts on the interpretation or the intent of policies, how to use a certain form, where they can get the form, what object code to use etc.," he said. "A distinct advantage of GURU is that the information is right there for the user to access. With a click of the cursor, a person can go directly to the information."

"Another advantage to electronic publication is that information can be updated with virtually no cost incurred," Mr. Rossman said. "Things we were hesitant to change before under the paper mode, can now be dealt with in a timely manner."

By the end of December, users will even be able to download University forms—like the ever-popular Cash Advance Form—to their machines and then print them locally.

Because GURU is still new—in fact, parts of it are still under construction—the Office of Systems and Procedures has not yet experienced a decrease in phone traffic, but the promise of fewer calls looms.

"Right now, we're getting additional calls about GURU itself, but once we have all the features in place, I'm sure users will be able to operate more effectively," Mr. Rossman said.

"The more information we put in user's hands about how the University functions, the more effectively and efficiently we can run."

Through a filtering process, GURU cannot be accessed by anyone from outside Penn State. Only those with computers registered in the PSU.edu network domain can tap into the new Web site.

—Lisa M. Rosellini



At the Web site, you'll find a picture of the pot-bellied GURU, as envisioned by the people in the Office of Systems and Procedures.

Rally

continued from page 1

"Hate groups make a real effort to organize in a way that is seen as random," Mr. Chandler said in a telephone interview. "When in reality, they are a very well connected network. Swastikas, gay bashing and the like are usually part of a larger picture and a larger organizing effort."

"When we do not say no to these situations, when we don't stand against them, we are basically saying 'yes,'" he said.

President Graham B. Spanier acknowledged the broad-based show of support at the rally and encouraged those in attendance to continue their efforts.

"I hope that those who speak out today, and those who speak silently through their presence here, are heard clearly by everyone in this community," he said. "There is a message of equity, respect and compassion. It's a Penn State message."

"It's the most important thing I've seen at Penn State in three years," student Jane Fueyo said about the rally.

To keep the momentum going that was created by the event, organizers say they will continue to pass out the buttons, which carry the theme "Take a Stand: For Ourselves, For Each Other," and will circulate a petition against acts of intolerance. Other groups plan to put together workshops and educational programming.

An effort by the Paul Robeson Cultural Center, the Center for Women Students and the Center for Ethics and Religious Affairs that started in 1993 is poised to address issues of concern for the University and wider community. Known as the Centers for Community Education, the coalition sponsors a wide variety of events that emphasize ideas of civility and responsibility.

The Center for Ethics and Religious Affairs sponsors an annual lecture series on "Values in the Community," and 1994-95 the Center for Women Students reached more than 11,200 students, staff and faculty through 127 educational programs about sex-role stereotyping, classroom/workplace climate and violence against women.

"To keep this going, people just need to look around and get involved," Dr. Jones said.

Fighting back If ignored, hate groups thrive

They no longer meet in the back alleys of small towns or the cornfields of rural America. Now they're on the Internet with slick home pages and online applications for membership. Want to be a white supremacist? Just log on and sign up.

Hate has gone high-tech, using voice mail, faxes and the World Wide Web to lure America's youth



President Spanier and others wait to speak to a crowd of about 1,000 at the Nov. 10 rally against intolerance on the University Park Campus. The rally was part of the community's swift response against acts of intolerance.

Photo: Greg Gneco

the Church of Jesus Christ Christian/Aryan Nations — a white supremacist group that combines Nazi ideas with a racist brand of biblical fundamentalism known as Christian Identity.

Mr. Cochran, who left the Aryan Nations in Idaho in 1992 after being told that his 4-year-old son would have to be killed because his cleft palate made him a "genetic defect," is now speaking out against the group he once called his family, and other groups like it, in an attempt to rectify his past — nearly 25 years of advocating the elimination of other races, ethnic groups and gays.

"It's easy to ignore these groups, believing that they'll go away or that organized white suprema-

cists only exist in the south," he said. "These are dangerous myths. Where there was no opposition, we returned again and again. That's what's happening in Pennsylvania."

Mr. Cochran said Pennsylvania has the highest ratio of hate groups east of the Mississippi River. Officials in the Pennsylvania Human Relations Commission office, the agency responsible for tracking hate group activity, could not confirm that claim but said that from 1994-95, 39 different white supremacist groups were detected in 43 communities. However, these same groups may have more than one "chapter" across the Commonwealth, bringing the actual number of known hate group enclaves closer to 90.

Across the nation, while Ku Klux Klan membership has dropped in the past decade from about 10,000 to 4,500, hard-core white supremacist numbers have soared, according to Noah Chandler, a research associate with the Center for Democratic Renewal in Atlanta. The center is a national organization that monitors hate groups and hate crimes across the United States.

"There are 25,000-plus active hard-core white supremacists in the country, but for every one of those, there are three or four of what we call sympathizers or supporters," Mr. Chandler said. "That brings the national total closer to 150,000 or 200,000."

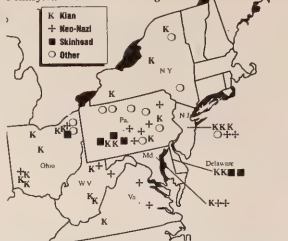
Floyd Cochran calls them "armchair racists" and said white supremacists in the 1990s are adept at changing the package of bigotry to become a palatable message to many. Calmer talk of freedom, family values and God has replaced their heavy race rhetoric.

The Center for Democratic Renewal also estimates that there are about 4,000 Skinheads nationwide. Skinheads are radical racists that carry with them a message of "white pride" and "white makes right," while advocating extreme violence to fulfill their dream of an all-white continent.

With names like America First Committee, Euro American Alliance, Christian Posse Comitatus and the Church of Jesus Christ Christian/Aryan Nations, hate groups are flourishing, according to both Cochran and Chandler—most without any opposition.

Targeting the 25-and-under crowd, white supremacists actively recruit on campus and in communities. Flyers regularly appear on campuses across the country and the white supremacists' presence on the World Wide Web continues to grow with online versions of their newsletters, libraries of information and FAQs frequently asked questions. At a site called Resistance Records, "Net surfers can download sound files of heavy metal hate songs with titles like 'Go to Dead,' 'The Last Battalion' and 'Racial Holy War.' Resistance Records

HATE GROUPS — 1994 Pennsylvania and surrounding states



Although many of the organizations shown on this map have numerous chapters in various states, only one symbol is shown per state for each separate organization. A state may have more than one of the same symbol because more than one organization of a given type may be operating in the state. It is certain that groups have more than one chapter in a state. The group's state office is represented on this map if it has it; if not, a site is randomly selected. Source: *Hatewatch Intelligence Report*, March 1995.

Action Steps for Campus Administrators

- Be aware of hate group activity in your area.
- Monitor bulletin boards, listserv sites and other Internet locations for hate group activity.
- Require hate groups to meet campus regulations.
- Provide security at scheduled public gatherings.
- Monitor hate groups for illegal activity.
- Investigate whether on-campus recruitment is an invitation to join a conspiracy.
- Don't let hate group activity of any kind go unchallenged.

accepts online orders with Visa and Mastercard and has a mailing list of about 15,000 people.

"The white supremacists have figured it out," said Dale Tampke, director of housing at Ohio University in Athens who also spoke at the workshop. "Put the sheets in the closet and go for the youth."

Dr. Tampke discussed ways campus administrators could fight the onslaught of white supremacist groups that find colleges and universities attractive recruiting grounds.

"People don't learn to get along through osmosis," Dr. Tampke said. "They don't learn it without some intervention from us. We need to be very aware of what is out there."

Mr. Cochran said hate groups are extremely good at finding a "wedge issue," something that will drive people apart particularly if there is no communication between groups to dispel the misleading information.

"They are very good at finding a wedge issue and using it to get people to listen," Mr. Cochran said. "White supremacists play on people's darkest fears, and they know what buttons to push. In the east, it's Jews and blacks; in Seattle, it's the gay/lesbian issue; in California, it's the immigrant issue."

"It's not enough to banish hate groups from your campuses," Dr. Tampke said. "You need to create an environment where people talk to one another. Communication and education are powerful tools."

— Lisa M. Rosellini

INFORMATION SOURCES

The following organizations provide information and have tapes and literature available at a nominal cost.

The Anti-Defamation League of B'nai B'rith

823 United Nations Plaza
New York, N.Y. 10017
(212) 490-2525

The Prejudice Institute

Center for the Applied Study of
Ethnovenience
Stephens Hall Annex
Towson State University
Towson, Md. 21204-7097
(410) 830-2435

Klanwatch Project

Southern Poverty Law Center
P.O. Box 548
Montgomery Ala. 36101-0548
(334) 264-8891

Center for Democratic Renewal

P.O. Box 50469
Atlanta, Ga. 30310
(404) 221-0025

Faculty/Staff Alerts

"Drop Out"

Faculty, staff and students should be aware of a special "drop out" day at Penn State. Today is the American Cancer Society's Great American Smokeout, and faculty, staff and students are being asked to "drop out" from smoking.

At Penn State, there is a fairly low rate of smoking among the population. However, there are great numbers of people who previously smoked, but have quit. Ex-smokers as well as smokers who quit for the day are encouraged to proudly wear a smokeout sticker.

Interested "drop outs" will be able to obtain stickers, snacks and register for many raffle prizes by stopping by tables in Willard Building and Rider Building on the University Park Campus. Hours will be 7:30 a.m.-3 p.m. at each location. For additional information, call the Faculty/Staff Health Promotion Office at (814) 865-3085.

Library hours

In observance of the Thanksgiving holiday, Pattee Library and the Architecture, Earth and Mineral Sciences, Education, Engineering, Mathematics, and Physical Sciences Libraries on the University Park Campus will close at 5 p.m. Wednesday, Nov. 22, and remain closed on Thursday, Nov. 23. On Friday, Nov. 24, and Saturday, Nov. 25, the libraries will be open 8 a.m. to 5 p.m. The regular schedule for library hours will resume on Sunday, Nov. 26.

In addition, the Music Listening Room and the University Archives/Penn State Room in Pattee Library will be closed on Friday, Nov. 24, and Saturday, Nov. 25. Pollock Library will be closed Wednesday, Nov. 22, through Saturday, Nov. 25, and will resume 24-hour service at noon on Sunday, Nov. 26.

For more information on hours of library service, call (814) 865-3063 or type HELP HOURS when using the Library Information Access System (LIAS).

Lunchtime talk

In the brown-bag discussion "Enlightening Lunch—Generation Gap or Communication Gap?" explore and discuss ways to build and nurture a lifetime of communication and understanding with your child. Meets Thursday, Nov. 30, noon to 1 p.m., in 110 Henderson Building (The Living Center). Cost: Free. To register, contact Jan Hawbaker at 865-3085 or JQH36@psuadmin. Cost: WEL 068.

Student award

A new award recognizing the research work of an undergraduate student in the area of women in history has been established by the Department of History and the family of Laura Richardson Whitaker (95).

The Laura Richardson Whitaker Award, which carries with it a \$500 stipend and plaque, is an annual award that will be given for a student essay, term paper or honors thesis—in addition to other forms of achievement, such as a video script or museum exhibits—on the subject of women. Entries will be evaluated by a departmental committee for originality and excellence and the award will be presented at the close of each academic year.

For more information about the award, contact Sally McCurry, interim head of the department, at (814) 865-1367.

Upcoming HRDC programs

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog.

Introduction to Windows 3.1 (IBM 003) Meets Monday and Wednesday, Dec. 4 and 6, from 1-5 p.m., in 116 Wagner Building; Cost: \$110.

Bridging The Gap: Gender Communication (COM 019) Meets Tuesday, Dec. 5, from 1:30-4:30 p.m., in 319 Rider Building; Cost: \$35.

How To Structure and Provide On-The-Job Training (CQI 027) Meets Wednesday, Dec. 6 and 13, from 8:30-11:30 a.m., in 319 Rider Building; Cost: \$55.

Resume Preparation (CAR 002) Meets Wednesday, Dec. 6, from 1:15-4:30 p.m., in 319 Rider Building; Cost: none.

Electronic Files Management (IBM 026) Meets Monday, Dec. 11, from 10 a.m.-noon, in 116 Wagner Building; Cost: \$35.

The Secret Of Success: Dynamics of Office Protocol (PER 014) Meets Monday, Dec. 11, from 1:30-4:30 p.m., in 319 Rider Building; Cost: \$35.

Filemaker PRO For Windows (IBM 024) Meets Tuesday and Thursday, Dec. 12 and 14, from 1-4 p.m., in Room B Penn State Scenic; Cost: \$150.

Defensive Driving-4 (WEL 002) Meets Wednesday, Dec. 13, from 1:15-4:45 p.m., in 319 Rider Building; Cost: none.

Designing Visuals For Your Presentation (COM 016) Meets Thursday, Dec. 14, in 319 Rider Building; Cost: \$35.

Facilitator Training II (CQI 006) Meets Thursday, Dec. 14, in Shaver's Creek Environmental Center at the Stone Valley Recreation Area; Cost: \$10.

Managing Your Professional Development Plan (PRO 052) Meets Thursday, Dec. 14, from 9-11:30 a.m., in 319 Rider Building; Cost: none.

Wordperfect For Windows 6.0 Level III (IBM 014) Meets Monday and Wednesday, Dec. 4 and 6, from 9 a.m.-noon, in 116 Wagner Building; Cost: \$90.

Personal Goal Setting and Achievement (PER 013) Meets Friday, Dec. 15, from 8:30-11:45 a.m., in 319 Rider Building; Cost: \$35.

Reporting non-compliance

Concerns or questions related to projects involving animals conducted at or under the auspices of the University can be directed to Candice Yekel in the Office of Regulatory Compliance at (814) 865-1775; by fax at (814) 863-8699; or by E-mail at CAY36@psuadmin. All concerns and questions are handled in confidence. Federal law prohibits discrimination against anyone who brings forward a legitimate concern for investigation.

The Institutional Animal Care and Use Committee (IACUC) at Penn State is responsible for ensuring that all animals used in research, education or testing activities at the University are treated humanely and in accordance with all federal, state and local laws and regulations. These activities are coordinated through the Office of Regulatory Compliance.



Collaborative effort

A seminar by Margaret J. Wheatley, "Self Organizing Systems: Creating the Capacity for Continuous Change," will be broadcast live at the Kern Graduate Center on the University Park Campus on Nov. 30, from 1-4 p.m. The seminar is sponsored by the CQI Center, the Institute for Innovation in Learning, and the Leonard Center in the College of Engineering. Dr. Wheatley has been working for years with organizations that want to achieve organizational coherence in the midst of chaotic environments. Her most recent book, *Leadership and the New Science*, was named "Best Management Book of 1992" by *Industry Week*, and is credited with establishing a fundamentally new approach to how we think about organizations. This seminar:

- Examines the need to create organizations that have the capacity to change continually.

- Looks at organizations as complex living systems that have the ability to self-organize and reorganize as needed in response to change.

- Explores the processes that can support an organization's inherent and creative tendency toward order.

This seminar is presented live and broadcast to downlink sites across North America. Participants will be able to fax questions to Dr. Wheatley during the seminar, and will receive extensive seminar notes prepared by Dr. Wheatley. If you would like to attend, please call Sue DeArmit at (814) 865-0229. The cost to Penn State faculty, staff and students is \$15.

Customer service

Written specifically for the educational community by the Service Quality Institute of Bloomington, Minn., the CONNECTIONS program helps place good "customer service" at the center of the organization. The program assists faculty and staff in understanding why quality service and a caring attitude are so important in helping students feel connected to their environment.

CQI team sponsors, leaders and facilitators and anyone interested in quality improvement are invited to network and learn about the CONNECTIONS program on Dec. 8, from 8:30 to 10 a.m. in the Old Main Alumni Lounge. Anna Griswold, assistant vice president for financial aid, will describe the unit's participation in the program. Barbara Sherlock, human resources CQI specialist, will discuss the program from a facilitator's perspective. All members of the university community are invited to the session. Please call Lynn Yecina, 863-8721, if you would like to attend.

For more information about Continuous Quality Improvement, please contact Louise Sandmeyer, executive director of the CQI Center, (814) 863-8721.

The ARTS

AT PENN STATE

The String Trio

The String Trio of New York and composer/pianist **Anthony Davis** will perform the world premiere of Mr. Davis' "Sounds Without Nouns" at 8 p.m. Friday, Nov. 17, in Schwab Auditorium on the University Park Campus. The concert is sponsored by the Center for the Performing Arts.

Mr. Davis, considered one of the leading contemporary composers, spent many of his childhood years in State College. He earned critical acclaim for his operatic works, "X: The Life and Times of Malcolm X" and "Tanita," and for the score to the Broadway hit "Angels in America."

The String Trio of New York includes violinist **Regina Carter**, bassist **John Lindberg** and guitarist **James Emery**.

Tickets are \$20 and \$16 for non-students; \$16 and \$12 for students.

For ticket information contact the Arts Ticket Center at (814)863-0255. Outside the local calling area, phone (800)ARTS-TIX.

Behrend welcomes jazz musicians

Jazz musician **Heath Allen** will appear at Bruno's Night Club at Penn State Erie, The Behrend College at 8:30 p.m. Friday, Nov. 17. The concert is free to the public.

Mr. Allen and saxophonist **Ken Ulaney** have been playing an array of jazz together since 1971. Their repertoire includes swing, bop, avant-garde and Latin jazz. Vocalist **Denise King** will appear with them.

For information, contact the Office of Student Activities at (814) 898-6117.

Orchestra to perform

The Penn State Philharmonic Orchestra, under the direction of **Pu-Qi Jiang**, associate professor of music, will present its second concert of the season at 8 p.m. Saturday, Nov. 18, in the School of Music Recital Hall on the University Park Campus.

The concert will consist of the music of American composers, featuring **Smith Toulson** on clarinet in the American premiere of "Arundo Donax for Clarinet and Orchestra," by professor emeritus **Burt Fennel**; and organist **June Miller** in Aaron Copland's rarely performed "Symphony for Organ and Orchestra." Mr. Toulson and Ms. Miller are both members of the School of Music faculty.

Admission is \$3 for adults; \$1 for students and will be available in the lobby of the School of Music Recital Hall before the performance.



Orchestra Dance Company

The "Choreographer's Showcase" featuring the Orchestra Dance Company, will be held at 8 tonight and Friday, Nov. 17, in the White Hall Dance Theatre in 132 White Building on the University Park Campus. The performance, which will range in style from jazz to modern, from lyrical to dramatic, features the work of students and faculty. Tickets, available at the door, are \$5 for general admission; \$4 for students.

University Choir annual fall concert

The Penn State University Choir, under the direction of **Tony Leach**, instructor of music, and **Sandee Schaddock**, assistant director, will present its annual fall concert "Our Gift in Song" at 2 p.m. Sunday, Nov. 19, in the School of Music Recital Hall on the University Park Campus.

Guest artists for the concert include organist **June Miller**, associate professor of music, and percussionists **Terri Stephens** and **Gary Yapple**.

Sine Nomine, a student-directed chamber ensemble, will present madrigals and secular partings on the concert.

Tickets are \$4 for adults; \$2 for students. Tickets may be purchased in advance from choir members or at the door the night of the concert.

University Women's Choral in concert

The Penn State University Women's Choral, under the direction of **Paul McPhail**, will present its first fall concert at 6 p.m. Sunday, Nov. 19, in the resonant sanctuary of Faith United Church of Christ, 300 E. College Ave., State College.

The 30-member group will perform works by Palestrina, Ives, Britten, Bartok and Bruce Trinkley, associate professor of music, in a program focusing on themes of youth. Show and jazz tunes will be sung by the "B-Naturals," an auditioned triple-trio group from the choral. Special guests are the Center Brass Quintet, which will perform a 20-minute pre-concert program.

The Women's Choral is a newly-formed ensemble of the School of Music and will join the other choral ensembles in the annual Winterfest Concert on Sunday, Dec. 3, in Eisenhower auditorium.

The Nov. 19 concert is free to the public.

"Lest We Forget"

"Lest We Forget," a concert by the Penn State Symphonic Wind Ensemble, will be presented at 8 p.m. Monday, Nov. 20, in the School of Music Recital Hall on the University Park Campus.

This year, worldwide ceremonies have focused attention on 50th anniversary observances of events leading up to and marking the end of World War II. The Wind Ensemble's second concert of the fall semester is a musical epilogue to commemorate this momentous conflict.

The Symphonic Wind Ensemble is a group of wind and percussion students in the School of Music. School of Music wind and percussion faculty include **Eleanor Duncan Armstrong**, flute; **Tim Hartz**, oboe; **Smith Toulson**, clarinet; **Daryl Durran**, bassoon; **Dan Yoder**, saxophone; **John Daniel**, trumpet; **Lisa O. Bontrager**, horn; **Mark Lusk**, trombone; **Martin Erickson**, euphonium and tuba; and **Dan Armstrong**, percussion. Conductor of the Symphonic Wind Ensemble is **Richard Bundy**.

The concert is free to the public.

"Talent Show '95" at Shenango Campus

The Penn State Shenango Students for Cultural Diversity, headed by **Keith Smith**, minority affairs coordinator,

will present "Talent Show '95" at 6 p.m. Friday, Nov. 24, in the campus auditorium.

A portion of the proceeds will go to the preschool and elementary family centers in the Farrell Area School District.

Tickets are \$3 in advance and \$4 at the door. For more information, call (412) 983-5865.

Centre Dimensions

Centre Dimensions, under the direction of **Dan Yoder**, professor of music, will present a concert of big band jazz at 8 p.m. Tuesday, Nov. 28, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. The group has been selected to perform in January 1996 at the International Association of Jazz Educators International Convention in Atlanta, Ga.

Selections for the Nov. 28 concert include a range of works covering more than 40 years of big band music.

The concert is free to the public.

Odyssey on WPSU

The work of Nobel Prize-winning Japanese author **Kenzaburo Oe** is the topic of discussion on the Oct. 22 Odyssey Through Literature broadcast, "Oe, Off Center."

Meeting with **Misao Miyoshi**, University of California-San Diego professor of Japanese, English and comparative literature, and with **Susan J. Napier**, University of Texas-Austin professor of Asian studies, host **S. Leonard Rubinstein** compares and contrasts the writings of Oe and his countryman **Yukio Mishima**.

The Nov. 29 broadcast, "Majestic Solitude," tells how Mozart's librettist, **Lorenzo Da Ponte**, came to make his home in Sunbury, Pa., in the early 1800s.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Wednesdays at 8 p.m. on WPSU, 91.5 FM.

Photography and sound at Palmer Museum

An exhibition of contemporary photography and sound, "Rapture at the Interface Between Love and Disease," will open Thursday, Nov. 30, and continue through Sunday, March 10, in the Palmer Museum of Art on the University Park Campus. The photographer, Penn State alumnus **David Telford**, '81 philosophy, and ethnomusicologist **Bryan Shuler** will discuss their work at 3:30 p.m. Nov. 30, in the Palmer Lipson Auditorium. A reception will follow in the Christoffers Lobby of the museum.

The exhibition is free to the public.

See "Arts" on page 8

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, November 16

Engineering Education Expo, 10 a.m.-3 p.m., Kunkle Lounge and Hammond Bldg. More than 30 projects will be displayed.

Sigma Xi, noon, 305 HUB. Barbara Rolts on "Why Do We Choose the Foods We Eat?"

Back Lunch Concert, 12:10 p.m., Eisenhower Chapel. Penn State Chamber Singers.

The Community of Remote Sensors, new interest group, 4 p.m., 514 Wartik. N.K. Bose on "Multiframe Image Processing: Problems, Progress and Future Directions." The group consists of faculty, research staff and graduate students interested in remote sensing.

Visual Arts, 4 p.m., Palmer Lipcon Auditorium. Karen Kunc, printmaker/book artist.

Hillel, 6:30 p.m., Palmer Lipcon Auditorium. "Europa, Europa."

Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Jean Cadigan on "An Introduction to Sleeping Beauties."

Shaver's Creek, 7 p.m. Searching for the Wisdom in the "Wise Use" Movement. Call (814) 863-2000.

Friday, November 17

Demonstration Workshop, 9 a.m.-noon and 1:30-4:30 p.m., 216 Attn Bldg. Karen Kunc will demonstrate printmaking techniques. Also, Nov. 18.

Gallery Talk, 11:30 a.m., Christoffers Lobby, Palmer Museum. Jean Cadigan on "An Introduction to Sleeping Beauties."

Undergraduate Studies Brown Bag Advising Lunch, noon, 305 HUB. Gary Burke on "Working with the Registrar's Office."

Gallery Talk, 2:30 p.m., Christoffers Lobby, Palmer Museum. David Grainger on "An Introduction to Sleeping Beauties."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Rodney Erickson on "Non-Profit Industrial Development Organizations: How Accountable Are They?"

Shaver's Creek, 7 p.m. Legends of the Night Sky. Call (814) 863-2000.

Center for the Performing Arts, 8 p.m., Schwab Auditorium. String Trio of New York with Anthony Davis, pianist. For tickets, call 863-0255.

University Resident Theatre Company, 8 p.m., Pavilion Theatre. "The Illusion," by Cornielle/Kushner. Runs through Dec. 2. For tickets, call 863-0255.

School of Music, 8 p.m., Eisenhower Auditorium. Bandoma. For tickets, call (814) 863-0255.

Saturday, November 18

Office for Minority Faculty Development Workshop, 9 a.m., 114 Kern Bldg. Robert A. Kilborn on "External Funding." For reservation, call (814) 863-1663.

1995 Holiday Ornament Sale, 10 a.m.-4:30 p.m., Palmer Museum. Also, Sunday, Nov. 19, noon-4 p.m.

Gallery Talk, 11:30 a.m., Christoffers Lobby. Debra Greenleaf on "African Headrests."

School of Music, 8 p.m., Recital Hall. Penn State Philharmonic. For tickets, call (814) 865-0431.

Sunday, November 19

WISE Voices Workshop, 10 a.m., Keller and Mater Bldgs. "Success Strategies for Women Graduate Students in Science and Engineering." Call (814) 863-8286, to register.

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Efram Burk on "Wayne Miller's Hiroshima."

■ Film, 2 p.m., Palmer Lipcon Auditorium. "Asante Market Women."

School of Music, 2 p.m., Recital Hall. Penn State University Choir. For tickets, call (814) 865-0431.

Monday, November 20

Continuing and Distance Education, The Penn State Scanlon. Jack V. Matson, presents the two-day workshop, "Innovation Workshop: Accelerating Innovation in Organizations." Call (814) 863-5130 for more information.

Comparative Literature Lunch Program, 12:15 p.m., 101 Kern. Davida Charney on "Students Epistemologies."

Lecture, 7:30 p.m., Deans Hall, Penn State Scanlon. Jeremy Rifkin will discuss his new book, *The End of Work: The Decline of the Global Economy and the Dawn of the Post-Market Era*. Lecture fee is \$10.

School of Music, 8 p.m., Recital Hall. Penn State Symphonic Wind Ensemble.

Tuesday, November 21

■ Religious Studies Program, 3 p.m., 102 Weaver Bldg. Damien Keown on "Buddhism and Abortion: Is There a 'Middle Way'?"

School of Music, 8 p.m., Recital Hall. Penn State Trombone Choir/University Brass.

Thursday, November 23

Thanksgiving Day.

Monday, November 27

Comparative Literature Luncheon Program, 12:15 p.m., 101 Kern. Donz Kunc on "The Electronic Text and Comparative Literature."

Tuesday, November 28

Art History, 8 p.m., Palmer Lipcon Auditorium. William R. Johnston on "The Fortune of Medieval Art in America."

School of Music, 8 p.m., Recital Hall. Centre Dimensions. University Jazz Ensemble.

Wednesday, November 29

Artist Talk Series, noon, Kern Bldg. Katarin Parizek on "My Passport Has Never Taken The Place of My Locket and Has Been the Key to Opening Up The World To Me. A Key That Unfortunately Many Of The People Who I Photograph Do Not And Probably Never Will Posses."

Thursday, November 30

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Penn State Trombone Choir.

■ Gallery Talk, 1:30 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "African Headrests."

Lecture, 3:30 p.m., Palmer Lipcon Auditorium. David Teplica, photographer and Bryan Shulb, ethnomusicologist, will discuss their work on display.

Gay, Lesbian, Bisexual Lecture Series, 7 p.m., Palmer Lipcon Auditorium. Johathan Silin, author, on "The Pervent in the Classroom."

Friday, December 1

■ Gallery Talk, 2 p.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "African Art at the Palmer Museum."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "The Nutcracker" by the Moscow Classical Ballet. Also, Dec. 2, 3 p.m. For tickets call 863-0255.

Saturday, December 2

■ Gallery Talk, 1 p.m., Christoffers Lobby. Kay Picart on "Asian Art at the Palmer Museum."

■ Gallery Talk, 2:30 p.m., Christoffers Lobby. Teng-Pin Wang on "An Introduction to Sleeping Beauties."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. James Stewart on "The Dilemma of Updating Myrdal's American Dilemma."

School of Music, 8 p.m., Recital Hall. Opera Scenes.

Sunday, December 3

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Cheryl Snay on "Looking at You: Portraits at the Palmer Museum."

Film, 2 p.m., Palmer Lipcon Auditorium. "Wolfgarth Among the Azande."

School of Music, 4 p.m., Eisenhower Auditorium. Winterfest: School of Music Choral Ensemble.

School of Music, 8 p.m., Recital Hall. Singing Lions. For tickets, call (814) 865-0431.

SEMINARS

Thursday, November 16

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. John Whelan on "Generalized Quantum Mechanics of Non-Abelian Gauge Theory."

Economics, 2:30 p.m., 413 Kern. Xiaohong Chen on "Nonparametric Recursive Moment Estimation for Dependent Data."

Physics, 3:30 p.m., 101 Osmond Lab. Jack Crow on "Science and Technology at High Magnetic Fields."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Alan Edelman on "The Penetration Division Flow."

Friday, November 17

Physics, 11 a.m., 339 Davey Lab. J. Patrick Looney on "Quantitative Absorption Measurements Using Ringdown Spectroscopy."

Entomology, 11 a.m., 16 ASL. Art Agnello on "Trade-Offs of a Long-Term Integrated Mite Management Program in New York Apple Orchards."

Chemistry, 2:30 p.m., S-5 Osmond Lab. Ken Wilsey on "Characterization of Surfaces Using Femtosecond Laser Pulses in Conjunction with Time-of-Flight Mass Spectrometry."

Aerospace Engineering, 3:35 p.m., 215 Hammond Bldg. Gary L. Gray on "Numerical Investigation of Complex Dynamics and Chaos in Satellite Attitude Dynamics."

Agronomy, 3:35 p.m., 101 ASI. John Achieng on "Maize Response to Combined Drought and Corn Rootworm Stress."

Philosophy, 4 p.m., 124 Sparks Bldg. Allan Stoekl on "The End of History and the Future of Philosophy."

Tuesday, November 21

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Mark Prausnitz on "Electroproton-Mediated Transdermal Drug Delivery."

Population Research Institute, noon, 406 Oswald Tower. Kenneth M. Weiss on "The Effect of Human Genetic Diversity on the Distribution and Risk of Disease."

Biology, 4 p.m., 8 Mueller Lab. John Condeelis on "Cytoskeletal Regulation of Protein Translation and Morphogenesis."

Geosciences, 4 p.m., 26 Hoesl. Mary Dawson on "Holarctic Mammalian Faunas During the Eocene."

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Donald B. Thomson on "Real Starches from High Amylose Corn Starch."

Monday, November 27

Plant Pathology, 3:30 p.m., 112 Buckhout. At Turgeon on "Re-evaluating Our Education Mission: A Stakeholder's Perspective."

Tuesday, November 28

Gerontology, noon, 101 H&H Bldg. East. Laif Jensen on "Poverty and Aging in Rural America."

Population Research Institute, noon, 406 Oswald Tower. James W. Wood on "Biodegradation and the Proximate Elements of Ecology."

Biology, 4 p.m., 8 Mueller Lab. Vitaly Citovsky on "Transport of Proteins and Nucleic Acids Through Plasmodesmata and Nuclear Pores."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Paul Soper on "Logic Programming Based Tools for Hypermedia Information Management."

Food Science, 4 p.m., 201 Barland Lab. Donald H. Burr on "Campylobacter Jejuni: Pathogenesis, Detection & Prevention."

Geosciences, 4 p.m., 26 Hoesl. John Vidale on "Earth Structure and Earthquakes Observed with a Very Large Seismic Array."

Wednesday, November 29

Center for Russian and East European Studies, noon, 102 Weaver Bldg. Juris Dragun on "Baltic States Five Years After Independence: Between Hope and Disenchantment."

Thursday, November 30

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Mark Klein on "Coordination Technology: Challenges and Directions."

Friday, December 1

Agronomy, 3:35 p.m., 101 ASI. Sioane Smith on "Evaluation of Soil Tests for Estimating Plant Availability of Trace Elements and Heavy Metals in Pennsylvania Soils."

CONFERENCES

Thursday, November 16

Extending the Classroom, 75 attendees. The Penn State Scanlon. Through Nov. 17.

Seventh Pan-Blasting Conference, 350 attendees. The Penn State Scanlon. Through Nov. 17.

Men and Women in the Workplace, 75 attendees. The Penn State Scanlon. Through Nov. 17.

Monday, November 20

The End of Work, 300 attendees. The Penn State Scanlon. Through Nov. 21.

Innovations Workshop, 60 attendees. The Penn State Scanlon. Through Nov. 21.

Wednesday, November 29

The Oppositional and Deliant Child, 160 attendees. The Penn State Scanlon. Through Nov. 29.

Thursday, November 30

Children of Crises, Violence, and Loss, 100 attendees. The Penn State Scanlon. NUCCA Winter Retreat, 35 attendees. The Penn State Scanlon. Through Dec. 2.

Friday, December 1

Science, Technology and Islamic Values, The Penn State Scanlon. Through Dec. 3. For information, call (814) 863-0086.

Calendar

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EXHIBITS

HUB

Art Alley Cases: Janice Gainer will display her figural art, such as permanent chocolateware which she invented. Through Dec. 10.

Sam Chaz: artist and wood burner. Portraits, still life, and architectural scenes on wooden canvases on display through Dec. 10.

Art Alley Panels:

"This Is Our Yard," an AIDS awareness project, through Dec. 10.

Browsing Gallery:

Quilts by Fran MacEachren, through Dec. 10.

Formal Art Gallery:

Works by Dorothy Hook. Watercolors of Alaska and the Aleutian Islands. Through Dec. 9.

Kern

Exhibition Area:

Baskery by Sherry Oberholtzer, through Dec. 12.

Jewelry by Denise Ajew, through Dec. 12.

■ Photography of Katarin Panizek. Photos look inside working lives and homes of people from third world countries. Through Dec. 12.

Palmer Museum

■ "Sleeping Beauties: African Headrests from the Jerome L. Joss Collection at UCLA," through Dec. 3.

*Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

*Rapture at the Interface Between Love and Disease," contemporary photography and sound by David Teplica and Bryan Shuler, through March 10, 1996.

■ "Wayne Miller Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10, 1996.

*David Teplica: Rapture," through March 10, 1996.

Pattee

East Corridor Gallery:

Works by the late Gerald M. Phillips. Using permanent marker and rulers, he creates sophisticated abstractions of elaborate geometric or checker-board patterns. Through Nov. 30.

Lending Service Gallery:

Works by Wendy Snetsinger. Floral paintings in watercolor, acrylic and oil accented with ink. Through Nov. 30.

Rare Books Room:

An exhibit of more than 150 editions and translations of "Der Struwwelpeter," or "Slovenly Peter," from the University Libraries' Allison-Shelley Collection. Through Dec. 15.

West Lobby:

Oil paintings by Eric Armusik titled "Why Me?," through Nov. 30.

Zoller Gallery

"School of Visual Arts Faculty Exhibition," through Dec. 5.

■ Reflects an international perspective

TIPS

Information Penn State
Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather—234, Arts Line—345; University Calendar—456

Arts

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Bach's Lunch Concert

The Penn State Trombone Choir, directed by Mark Lusk, associate professor of music, will perform at the Bach's Lunch concert series Thursday, Nov. 30, at 12:10 p.m., in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute free concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The Trombone Choir consists of 24 undergraduate and graduate music majors. For the Bach's Lunch concert the group will perform Christmas selections.

The audience may take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided.

Floral paintings on display

An exhibition of works by Wendy Snetsinger is on display in Pattee Library's Lending Service Gallery through Nov. 30.

Ms. Snetsinger's works are floral paintings in watercolor, acrylic and oil accented with ink. She has "tried to capture the spirit and beauty of flowers growing."

Pattee exhibit

An exhibition of works by the late Gerald M. Phillips will be on display in Pattee Library's East Corridor Gallery through Nov. 30.

The works represent what Dr. Phillips considered to be his "doodles." He used permanent marker and rulers to create sophisticated abstractions of elaborate geometric or checker-board patterns.

This exhibition is presented to celebrate the memory of Dr. Phillips. Distinguished Professor emeritus of speech communications, who was a University faculty member for more than 30 years.

Watercolors featured

Dorothy Hook of Brockport, Pa., is having a one-woman exhibition at the HUB Formal Art Gallery on the University Park Campus through Dec. 9.

The majority of the exhibition will be watercolors of Alaska and the Aleutian Islands, where she spends up to five months each year painting the harbors, wharfs, villages and people. She has completed a book of her drawings and watercolors of the Aleutian Islands and is in the process of completing another on the rest of Alaska. She has published 44 postcards of Alaska and the Seattle area taken from her original watercolors.

Dr. Hook, who taught studio art and techniques, wildlife landscape and portrait drawing and painting, as well as art and humanities at the Penn State DuBois Campus, is a three-time graduate of Penn State. She completed a B.F.A. in fine arts, MSA in science of architecture and a Ph.D. in art education.

The HUB's Formal Gallery is on the first floor of the HUB and is open Tuesday through Thursday, from noon until 8 p.m.; Friday and Saturday, noon-4 p.m.; and is closed Sunday and Monday. There is no charge for this exhibit.

Quilt exhibit

The HUB Galleries on the University Park Campus will feature quilts by Fran MacEachren in the Browsing Gallery through Dec. 10.

Ms. MacEachren holds a B.A. from Stanford in studio art and has received many awards from both solo and group showings.

The HUB's Browsing Gallery is on the first floor of the HUB and is open during all open HUB hours.

Figural art on display

The HUB Art Alley cases on the University Park Campus will feature the figural art of Janice Gainer through Dec. 10.

Ms. Gainer's figural art begins with permanent chocolateware, which she invented and has not been duplicated elsewhere. The chocolateware begins with cocoa and ends resembling stoneware which smells like chocolate and will last for generations.

Ms. Gainer is employed by the HUB and Kern art galleries on the University Park Campus.

The HUB's Art Alley cases are on the first floor of the HUB and are open during all open HUB hours.

Third-world photos

The Kern Panels in the Kern Exhibition Area on the University Park Campus will feature the photography of Katarin Parizek through Dec. 12.

Ms. Parizek's photography is a look inside the working lives and homes of people from third world countries. Her work is part

of a traveling exhibit.

Ms. Parizek received her BFA in art from Penn State and currently is working on her MFA in photography at Penn State.

Her work also will be exhibited in the Ritenour Health Center Lobby and in West Halls Multi-Purpose Room. Through Dec. 6 as part of the Art on the Move program.

Ms. Parizek also will be the guest speaker at noon on Nov. 29 in Kern as part of the Artist Talk Series.

The Kern Exhibition Area is on the first floor of the Kern Building on the University Park Campus. Exhibition hours are 8 a.m. to 11 p.m., Monday through Friday; 10 a.m. to 11 p.m. on Saturday; and noon to 11 p.m. on Sunday.

Slovenly Peter exhibit

Heinrich Hoffmann's *Der Struwwelpeter*, or *Slovenly Peter*, as the book is known in English, is one of the all-time best-sellers in German children's literature. To commemorate the 150th anniversary year of its first publication, the Rare Books Room in Pattee Library at University Park will mount an exhibit of more than 150 editions and translations from the University Libraries' Allison-Shelley Collection, which includes one of the world's best collections of *Slovenly Peter* and his imitators.

Slovenly Peter is a short collection of illustrated verses published in 1844. It since has been translated into many languages and has inspired parodies and political satires.

The Rare Books Room, W342 Pattee Library, is open Monday through Friday, 8 a.m. to 5 p.m. The exhibit will run through Dec. 15.



A chocolate-lover's dream

Figural art called chocolateware, created by Janice Gainer, will be on display at the HUB Art Alley cases on the University Park Campus through Dec. 10.

LECTURES

Lectures to address negative child behavior

Children face challenges that can negatively affect their behavior and development. To address problems in child behavior, educators, health care professionals and social workers will gather at The Penn State Scanticon Nov. 29-Dec. 2, for a series of lectures identifying trouble situations and discussing how best to deal with them.

Offered as a continuing and distance education service by the College of Health and Human Development, "The Oppositional Defiant Child" and "Children of Crisis, Violence and Loss" investigate the reasons why children suffering from troubles in their lives misbehave. On Nov. 28, "The Oppositional Defiant Child" takes an in-depth look at behaviors of prostration, pouting and stubbornness, obstructionism and forms of intentional inefficiency. The following day offers "Children of Crisis, Violence and Loss," which studies regressed skills; inability to con-

centrate; and feelings of fear, insecurity and anger due to traumas created by violence, a crisis and/or significant personal loss.

During the last two days, noted human development researchers and child/family psychologists present their findings and experiences on issues that affect families in the midst of marital conflict and divorce.

The program also will feature a panel of experts in court-related issues, which will discuss the legal aspects of divorce, including trends in custody, domestic relations, individual rights and responsibilities, and the role of mediation and intervention.

Participants can register for one program for \$85. A choice of two programs is available for \$165, and three programs are \$245.

For more information about registration or program content, call 1-800-PSU-TODAY (778-8632).

Alternative medicine to be explored during conference

A large number of patients in North America use alternative medical treatments, including patients in all social classes and walks of life. These treatments and others will be explored during a conference, "The Future of Alternative Health Care: Challenges and Choices," at The Penn State Scanticon on Dec. 1-2.

One in three Americans now choose to blend alternative healing modalities with more traditional medical care. Faced with an increasing number of questions from their patients about these alternative approaches to care, health care professional need objective information about the specific types of alternative health care available, current research on their effectiveness, ethical implications of use, and prescriptive strategies.

This conference addresses this need by bringing together practitioners from a breadth of professions to address issues and concerns surrounding alternative health care practices.

— Dr. Wayne Jonas, director of the Office of Alternative Medicine at the National Institutes of Health in Rockville, Md., will give the keynote address, "Alternative Health Care Implementation in America: Current Opportunities and Considerations," on Friday, Dec. 1. Dr. Jonas has conducted research in a number of conventional and alternative areas. In addition to his conventional medical training, he has received training in homeopathy, bioenergy therapy, diet and nutritional therapy, mind/body methods, spiritual healing, herbolgy, diagnosis and clinical pastoral education.

Discussion topics include: defining alternative health care, alternative medicine, pluralism and polarity since 1795, yoga practices, healing and therapeutic touch, oriental imagery, spiritual healing, homeopathy, medicine and ethnicity.

For information about conference registration, call (814) 863-5140.

Entomology series will leave you buggy

The Department of Entomology is offering free public programs to help enlighten people of all ages. "Catch the Bug" is a year-round series of walks, talks and activities providing in-depth looks at insects and their fascinating — and often unusual — ways.

Topics to be covered range from the ticks and butterflies of central Pennsylvania to the flora and fauna of the Costa Rican rain forest. Planned programs include:

■ **Does Rudolph (the reindeer) Suffer from Lyme Disease?** Learn the facts about Lyme disease and how to protect yourself. Wednesday, Dec. 6, at 7 p.m.

■ **Tropical Adventures.** Learn about preserving the rain forest of Costa Rica. Wednesday, Jan. 17, at 7 p.m.

■ **Where Have All the Insects Gone?** Take a bug-watching walk to see where insects go in the winter. Saturday, Feb. 10, at 10 a.m.

■ **Hands on Bugs.** Learn what's good to hold and what's not in this hands-on introduction to some of the most fascinating and exotic creatures on Earth. Saturday, March 9, at 10 a.m.

■ **Taking a Bite of the Perfect Apple.** Replacing pesticides with biological alternatives requires your understanding — are you up to it? Wednesday, April 10, at 7 p.m.

■ **Insects Springing Forth.** As the weather warms up, so do the insects. See why on this springtime walk. Saturday, May 11, at 10 a.m.

■ **Wildlife Nightlife.** Experience moth mania, caterpillar cruisin' and other six-legged summer evening delights on this insect walk. Wednesday, June 12, at 7 p.m.

■ **Sick of Bugs.** Houseflies, mosquitoes, cockroaches and ticks — find out what they have and how to keep from getting it. Wednesday, July 10, at 7 p.m.

■ **Feasting with the Frillaries.** Bring your lunch and dine with the butterflies. Saturday, Aug. 10, at 10 a.m.

Wednesday evening presentations (except Wildlife Nightlife) will be held in 101 Agricultural Sciences and Industries Building.

Wildlife Nightlife will take place at the Wind Ridge Farm and research site near Unionville. Call (814) 865-1895 for directions.

Saturday morning activities and field tours will begin in the lobby of Agricultural Sciences and Industries Building. From there, the group will travel a short distance by car to the field location.

For more information, call the entomology department at (814) 865-1895.

Professors to detail research on genetic diversity, fertility

The next two seminars in the series "Biological Issues in Population Research," sponsored by the Population Research Institute, will be held Nov. 21 and Nov. 28.

The seminar on Nov. 21 will feature Kenneth M. Weiss, Distinguished Professor of genetics and anthropology. Dr. Weiss will be presenting from his research on "The Effect of Human Genetic Diversity on the Distribution and Risk of Disease." In describing this line of research, Dr. Weiss notes that the documentation of genetic variation in the susceptibility to disease has become one of the most exciting, and at the same time controversial, subjects of contemporary science. The amount of variation and its difference among human populations are much greater than expected. This variation mediates risk through its effect on the age-specific risks of disease, often in a context-depend-

ent way." Dr. Weiss' work combines methods of research on genetic variation with demographic methods to provide population estimates of disease risks.

On Nov. 28, James W. Wood, professor of anthropology, will speak on "Biodemography and the Proximate Determinants of Fertility." This talk explores new approaches to the study of human fertility variation, combining demographic and endocrinological methods. Special attention is paid to the birth spacing effects of fecundability and pregnancy loss, and how physiological variation may influence those effects.

Both seminars will be held in 406 Oswald Tower on the University Park Campus from noon to 1 p.m. and are open to the public.

For more information, contact the Population Research Institute at (814) 863-9984.

More Lectures

Information technology is the topic of final lecture in Harrisburg series

"Global Information Technology: Opportunities and Trends" from noon to 1 p.m. Tuesday, Dec. 5 is the final lecture in the "Current Issues in Business" series held at the Downtown Center in Harrisburg.

Mehdi Khosrowpour, associate professor of information systems at Penn State Harrisburg, will provide participants with a broad understanding of global information technology systems concepts, applications, opportunities and trends. The talk will also focus on the role of global information systems in managing global markets and trends.

Dr. Khosrowpour received his master's of science

degree in computer information systems from the University of Miami, an MBA from Florida Institute of Technology and a doctorate in business administration from the Nova Southeastern University. He is also a certified systems professional and editor-in-charge of the *Information Resources Management Journal*, the *Journal of Database Management and Information Management*.

For more information on the lecture, sponsored by the School of Business Administration at Penn State Harrisburg, contact the center at (717) 772-3590.

Mathematician asks question, "How many people can Earth support?"

The human population is increasing in raw numbers at a faster rate than ever before. Conservative predictions say that the population will be at least double, reaching 11 billion by the year 2050.

"How Many People Can the Earth Support?" is the title of a talk based on an analysis by biologist and mathematician **Joel E. Cohen**, scheduled for 11:15 a.m. Tuesday, Nov. 21, in 101 Altoona at the University Park Campus.

Dr. Cohen develops the idea that human carrying capacity is very different from the ecologist's view of natural carrying capacities, because human resource needs vary by orders of magnitude, making our carrying capacity far more plastic. Mathematical models bring home the point that the most serious problem we will face will center on future trade-offs among population size, economic well-being, environmental quality and cultural values.

Dr. Cohen, professor of populations and head of the Laboratory of Populations at Rockefeller University since 1975, has focused on a variety of problems in mathematical biology and his research deals mainly with the demography, ecology, population genetics, epidemiology and social organization of human and nonhuman populations and

with mathematical concepts useful in these fields. He has done extensive work on the theory of food webs and competition in ecological communities. More recently he jumped into the fray over the probabilistic issues in forensic uses of DNA typing. He devised a stochastic method for performing unbiased surveys on sensitive topics such as HIV risk behaviors. He has contributed to pure mathematics as well, publishing on game theory, random matrices, graph theory and queueing networks.

In 1995, he was also appointed professor of populations at Columbia University. He received doctorates in applied mathematics (1970) and population sciences and tropical public health (1973) from Harvard University. He was elected a Fellow of the MacArthur Foundation in 1981. This month, W.W. Norton and Co. will publish his most recent book, *How Many People Can the Earth Support?*

The talk is sponsored by the Eberly College of Science as part of its New American Scientist Initiative. Anyone who would like the opportunity to meet with Dr. Cohen during his stay at Penn State should contact **Andrew Clark** at (814) 863-3891.

Penn Staters

Kathleen Barry, professor of human development in the College of Health and Human Development, was cited by the French magazine *Marc Claire* as one of "100 women who have changed the world."

Dr. Barry was cited for her work focusing on violence against women. The magazine highlighted her work as the founder of the Coalition Against Trafficking in Women, as the author of the 1995 book *Prostitution of Sexuality*, and as initiator of the Convention Against Sexual Exploitation. The latter conference was presented at the Fourth World Conference of Women in Beijing.

Henry A. Giroux, Waterbury Chair Professor in the College of Education, gave the plenary address "Public Intellectuals and the Role of Higher Education in a Democratic Society" at the University of Buenos Aires. He also gave a second invited address, "The Vocationalization of the University," at the University of Buenos Aires.

Austin J. Jaffe, the Philip H. Sieg Professor of business administration, recently conducted a series of seminars in the Netherlands. He led a session titled

"REITs: The Myths and Realities," at the Center for Investment and Real Estate in Amsterdam; "The Economics of Legal Institutions in the New International Real Estate Research" at the University of Limburg in Maastricht; "International Investment and Portfolio Management" at the University of Amsterdam; and "Real Estate Finance as Financial Engineering," also at the Center for Investment and Real Estate.

Bill Nickerson, research assistant with the National Center for Advanced Driver/Train Technologies at the Applied Research Laboratory, co-chaired the condition monitoring session and presented a closing plenary paper, titled "The Blurring Distinction Between Nondestructive Testing, Onboard Diagnostics," at the 34th Annual British Conference on Nondestructive Testing in Chester, England.

Howard W. Pickering, Distinguished Professor of metallurgy, has been elected a Fellow of the Electrochemical Society for his contributions to the understanding of corrosion processes and long-time contributions to the society.

Apollo 13 mission control director to speak at Altoona

"Failure is not an option" is the phrase made famous by Apollo 13 Mission Control Director **Gene Kranz**, who will speak at the Penn State Altoona Campus at 7:30 p.m. Wednesday, Nov. 29, in the Community Arts Center as part of the Distinguished Speakers Series sponsored by the Office of Student Affairs at Penn State Altoona.

The talk is free, but because of limited seating tickets must be obtained at the Penn State Bookstore on the Altoona Campus or may be reserved by calling the Office of Student Affairs at (814) 949-5053. There is a limit of two tickets per person. Bookstore hours are: Monday 8 a.m. to 6 p.m.; Tuesday through Friday 8 a.m. to 4:30 p.m.; and Saturday 11 a.m. to 2 p.m.

As the leader of the "Tiger Team" of flight directors that brought the Apollo 13 spaceship and its three astronauts safely back to Earth after its oxygen system failed, his efforts, along with those of others, were chronicled in the recent film *Apollo 13*.

After flying high-performance jet fighter aircraft for the U.S. Air Force, Mr. Kranz joined NASA in 1960 and contributed to the Mercury, Gemini, Apollo and Skylab programs. He assumed flight director duties for all Project Gemini Missions, including the Apollo 11 Lunar Landing. In addition, he contributed his expertise to a number of other NASA missions during his career, including the Skylab Program. After the Skylab Program concluded, he was named deputy director of Flight Operations for NASA, which gave him the responsibility for space flight planning, training and mission operations, aircraft operations and flight crew operations. In 1983, he was assigned as director of Mission Operations with responsibilities for all aspects of mission design, development, maintenance and operations of all related mission facilities, as well as the preparation of the Space Shuttle flight software.

He has received numerous awards and honors, including the Presidential Medal of Freedom. He retired from NASA in 1994 after 37 years of federal service, and is currently a consultant and speaker.

Jorge Pullin, assistant professor of physics and a researcher in the Center for Gravitational Physics and Geometry, presented a lecture during the seventh Gregynog Meeting on General Relativity at the University of Wales. The title of his lecture was "Colliding Black Holes With Linearized Gravity."

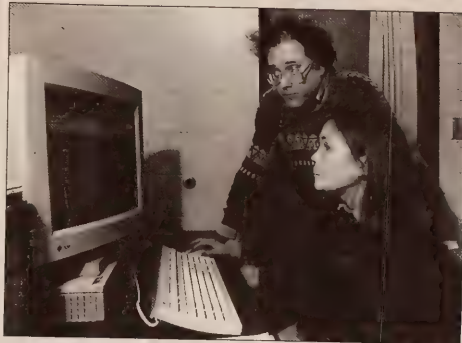
Evelyn A. Thomchick, associate professor of business logistics in The Smeal College of Business Administration, has been awarded the 1995 E. Grosvenor Plynar prize paper award at the recent Transportation and Logistics Educators Conference. The conference annually features a presentation competition, the winner of which earns the Grosvenor award for being judged to have contributed the most original materials and thinking to the logistics field. Dr. Thomchick's paper was titled "Application of Collaborative Learning Techniques to an Undergraduate Logistics Case Study Course."

Robert W. Watson, associate professor of petroleum and natural gas engineering, has received the Society of Petroleum Engineers Distinguished Service Award.

Lean genes could be key to how birds are able to fly

Birds whose genes are lean might be the best flyers, according to research published in the journal *Nature* by Penn State's husband-wife researchers Austin L. Hughes, assistant professor of biology, and Marianne K. Hughes, research associate. The biologists discovered that bird genes have lost significant amounts of "junk DNA" during their evolution, providing the latest clue in the evolution of flight in birds.

Scientists have known that the nuclear DNA content in bird cells is much less than in the cells of mammals and other animals, but they have not known why. One theory is that modern birds lost a large amount of genetic material due to a chance mutation in a small ancestral breeding population millions of years ago. Another theory is that modern birds got some unknown benefit from developing smaller genes throughout their evolution. "It is some adaptive reason why birds have a reduced genome size then it should be reflected in just about every gene," Austin Hughes said. "We would expect to find that each gene sequence is smaller — not



Austin L. Hughes, assistant professor of biology, and research associate Marianne K. Hughes study data from their research on "junk DNA" and the evolution of flight in birds. The researchers theorize that birds' smaller genes may be responsible for their ability to fly.

Photo: Greg Grieco

that a huge single chunk of DNA is missing."

The Hughes team compared gene sequences from humans and chickens. "The largest database of mammal genes is for humans and the largest database of bird genes is for chickens," Dr. Hughes said.

They focused on sections of DNA called introns, which Dr. Hughes calls "junk DNA." Introns serve primarily as boundary markers on the DNA chain between gene segments called exons, which have important functions in the protein-making process. They found that chicken introns

were smaller, especially for gene sequences that are very big in humans. "Small intron segments were missing in every gene, which indicates to me that there is some sort of overall pressure in the direction of reducing the genome size in birds," Dr. Hughes said.

He notes that animals with smaller genes are known to have smaller cells. He speculates, "A good metabolism for flight requires each cell to exchange carbon dioxide for oxygen really fast, which is easier to do in a small cell because it has a relatively larger surface area." Another possible reason that reduced DNA might be an advantage for flight is increased speed of gene replication.

The Hughes team also ranked 40 families of birds according to their flying ability and found that the best flyers consistently had the smallest genome size. Dr. Hughes said his research shows the reduction of the genome is adaptive for flight because it has been continuing over a long period of time.

"We next want to compare the introns of other birds — like a penguin, which can't fly at all, and a hummingbird, which is a great flyer — to see if this hypothesis holds up," Dr. Hughes said. "It also would be great to do the same thing with bats, which fly and also have less DNA than the average mammal," he said.

— Barbara K. Kennedy

Study shows eye surgery is not always necessary

A nationwide, five-year federally sponsored study has found that additional surgery may not be necessary for approximately three-fourths of patients who develop a bacterial eye infection after cataract surgery. The results also showed that antibiotic given directly at the site of infection are effective and that intravenous antibiotics are not required.

"These results show that this condition is much easier to treat now, both for the patient and the doctor," Thomas Gardner, associate professor of ophthalmology at The Milton S. Eshelman Medical Center, said. "By eliminating the need for surgery and several days of expensive antibiotics, we can treat much more cost-effectively with just as good an outcome."

The infection, called endophthalmitis, causes an inflammation of the interior of the eye. Though it occurs in only 4 percent of the 1.35 million people who have cataract surgery each year, the condition may be serious, leading to blindness.

The clinical trial involved 420 patients who had developed endophthalmitis within six weeks of cataract surgery or secondary intraocular lens insertion. The trial was aimed at finding out the effectiveness of an immediate vitrectomy, which is an operation to replace the gel-like filling inside the eye, and intravenous antibiotics in treating endophthalmitis. All of the patients received antibiotics injected directly into the affected eye.

The study was conducted at 27 university-based clinical centers and private practices nationwide, including The Hershey Medical Center.

Because these findings should lead to immediate public health benefits, the National Eye Institute has issued a clinical alert to more than 15,500 ophthalmologists nationwide on the findings.

Higher Cesarean rate reflects sicker patients

When biostatisticians wanted to know why nearly one-third of babies delivered at The Hershey Medical Center in 1993 were Cesarean births, they decided to examine who the patients were.

They discovered that many of the mothers were coming from surrounding rural areas, often traveling from more than 25 miles away to the center for difficult deliveries.

"Pregnant women are sent here to our high-risk obstetrics unit because either their lives or their babies' lives are in danger," Bruce Hamory, associate dean for clinical affairs, said. "A Cesarean delivery is often the only way to adequately care for both mother and child."

According to Dr. Hamory, The Hershey Medical Center serves more mothers coming from long distances than any other institution in the state.

The center has the largest percentage of obstetrics patients coming from more than 50 miles away (17 percent), and of those coming from 25 to 50 miles away (23 percent) of any hospital in the state.

Statisticians at the medical center compared the percentage of Cesarean deliveries at Pennsylvania hospitals to what each hospital might normally expect based on types of patients usually seen.

The center's rate of 31.3 percent was nearly exactly what the statistics predicted. Overall, the state's hospitals averaged more than 21 percent of births by Cesarean delivery.

"These patients are traveling long distance to come here because they are high-risk pregnancies," A. Russell Localio, assistant professor in the Center for Biostatistics and Epidemiology who performed the analysis, said.

The center has a below-average rate of Cesarean delivery for patients in its local service area.



Service connects students and jobs

JobLine Penn State's Lion JobLine, a computerized job listing service you tap into with a touch-tone phone, has received some 6,000 phone calls from job-hunting Penn State students since the service went online in mid-August.

To use the service, Penn State students at the University Park Campus simply call 863-JOBS and follow computer-generated "voice prompts" to get the job information they want. (They also need a password, which is changed every semester, but that's easily obtained by phoning Penn State's career development and placement services office.) Students at other Penn State locations can access the job line by using a toll-free 800 number, which they can get by calling their local student affairs office.

No matter where they're located, jobseekers using Lion JobLine can:

- Use touch-tone phones to choose audiotaped listings of jobs posted the same day they call;
- Search for current job listings in nine separate categories (and use the numerical 1 button to speed past the listings of jobs that don't fit their backgrounds); and
- Find out who to contact the employers offering the jobs.

"Twenty-four hours a day, Penn State students and alumni can reach Lion JobLine from anywhere in the world," Jack Rayman, director of career development and placement services at Penn State, said.

"Once they have the current password, all they need to do is call the job line, punch in the password, and check out dozens of up-to-date job listings."

On the system at any given time are listings of 100 to 200 current jobs, at companies ranging from local and regional employers like TCI, Jostens, Riverside Markets and WHTM-TV (in Harrisburg, Pa.) to national and international corporations like Coca-Cola, Chevron, Prudential, Lockheed Martin, M&M (Mars), Motorola, Intel and Xerox. About 75 to 100 new jobs are listed every week.

The system's voice prompts guide jobseekers through more than 50 kinds of job categories in the nine major areas of:

- arts, media and entertainment;
- engineering, sciences and computers;
- finance and accounting; health, education and human services;
- health administration and technical professions;
- education;
- human services;
- law, government, politics and non-profit groups;
- management and administration;
- sales and marketing;
- agriculture, forestry and environmental; and
- office, service and temporary work.

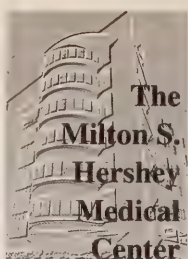
The Lion JobLine is supported by a \$25,000 grant from the Prudential Foundation.

Program works to help parents of children with special needs

Most parents, when asked to give their opinion about raising children, say it isn't easy. While there are virtually hundreds of books on the market offering advice to parents, there is no particular one that has all the answers. For parents of children with special needs, everyday life can be especially challenging as they are faced with situations not addressed in the majority of these books. Realizing that the parents of these children have their own special needs, the Department of Pediatrics at The Milton S. Eshelman Medical Center implemented a pilot program, called the Family Focus Care Program, to assist and support these parents as they cope with their child's illness.

The program, under the direction of Dr. Roger Ladda, professor of pediatrics and chief, human genetics, growth and development, works to enhance a family-centered approach to health care delivery and to help families become more effective caregivers for their children with special health care needs.

Marybeth Zahorchak, coordinator of the new program and also the mother of a child diagnosed with



hydrocephalus, which is an *in utero* stroke, cortical visual impairment and bilateral optic atrophy, views it as a much-needed program.

"I remember what I went through after my son Patrick's diagnosis. It was really devastating, and there was really no one there to talk to who had ever gone through this experience," she said.

Ms. Zahorchak draws upon her

own personal story when working with parents, many of whom have newborns suffering from Down's syndrome, cerebral palsy and genetic and neurological disorders.

"They're a little nervous to talk to someone at first. If you approach them in the wrong way, it can be as if you are intruding upon their privacy. After I tell them a little about my own experience, they start to relate and tell their stories."

Ms. Zahorchak said she meets with an average of 10 families a week and works with families in the outpatient clinic, as well as the community. During this time, she works closely with them, helping them develop skills necessary to assert their role as primary caregiver and decision-maker in their child's life.

This includes many activities, such as serving as a point of contact between the family and its physician; offering to accompany a family during consultations to provide support; promoting a collaborative relationship between a family, professional caregivers and hospital staff, and making referrals to the Department of Health's Regional Centers, opening in January 1996.

Statewide tour rolls on

President Graham B. Spanier's statewide tour continues Nov. 21 with a stop at the Altoona Campus, where he will meet with campus staff, faculty and students, travel to Altoona Area High School, tour the new railroad museum, meet with Rotarians over lunch, hold editorial board visits with the *Altoona Mirror* and the *Johnstown Tribune-Democrat*, meet local television reporters and visit the Altoona Hospital.

On Nov. 29, Dr. Spanier travels to Philadelphia for a community event as part of a celebration of Penn State's involvement in that area. The president began his statewide initiative Sept. 20 as a vehicle for listening to constituents in the communities where Penn State is located.

FAST FACTS ABOUT ALTOONA CAMPUS

Founded: 1939

Service area: Bedford, Blair, Cambria, Huntingdon, northern Somerset counties

CEO: Allen C. Meadors

Enrollment: 2,919

Key programs: Offers two baccalaureate degrees: a B.A. in letters, arts and sciences and a B.S. in electro-mechanical engineering technology; six associate degrees; the first three years for elementary education majors; and credit certificate programs.

PENNSTATE INTERCOM

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INTERCOM

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NIH grant sparks collaboration Hershey and Noll Lab to receive \$10 million for center

Collaborative efforts between The Milton S. Hershey Medical Center and University Park have received a shot in the arm via a \$10 million grant from the National Institutes of Health to fund a General Clinical Research Center.

The GCRC will be based at the medical center, with a satellite facility at Noll Physiological Research Center in the College of Health and Human Development at University Park.

The award, spread over 4 1/2 years, will support the medical center's existing infrastructure for clinical research—the medical studies of people.

At University Park, the award will diversify and

strengthen clinical research already taking place at Noll Lab, said William Evans, Noll director. The award also will fortify ties between Noll researchers and those at the medical center, he said.

To complement the collaboration, the University has committed \$2.3 million to construct medical laboratories for specialized physiological testing at a facility adjacent to Noll. The facility will be headed by a medical doctor and is expected to be up and running by summer 1997.

"The new research center is significant because University Park doesn't have a strong tradition of clinical research," Dr. Evans said. "The center will provide a

See "Research center" on page 5

Philadelphia Center showcased in recent visit to region

Penn State's Philadelphia Center has been opened to promote the many ongoing educational and community services provided by the University to residents of the Philadelphia region.

President Graham B. Spanier officially dedicated the University offices located within the center at 4601 West Market Street in Philadelphia during his Nov. 29 visit to the region.

"This initiative strengthens our continuing commitment to the people of Philadelphia and southeastern Pennsylvania," he said. "We have brought together the many programs serving area families, students, neighborhoods, schools, government and corporations and consolidated them into a highly visible location."

"As Pennsylvania's university dedicated to outreach, Penn State is expanding its urban services and educational programs to better address the educational, research and services needs of the Philadelphia region," Dr. Spanier said.

The dedication was part of the president's visit to the city of Philadelphia, which included stops at the William Bodine Magnet High School for International Affairs, a Chamber of Commerce luncheon and meetings with the editorial boards of the *Philadelphia Inquirer* and the *Philadelphia Tribune*.

The president is winding down this half of his yearlong tour of the Commonwealth that encompasses the University's 23 locations, a number of its 67 Cooperative Extension offices and visits to businesses, high schools and civic organizations within those communities.

The University has brought together many educational programs and services at the Market Street Center. For example, Penn State's Cooperative Extension offers community and educational programming to improve the lives of families, youth and adults, in active programs such as:

- 4-H programs, which involve approxi-

See "Philadelphia" on page 5



Don't forget...

These people got an early jump on obtaining benefits information at the benefits open house on the University Park Campus on Nov. 17. Benefits election for 1996 ends today. Employees should submit their forms to the Employee Benefits Division at University Park. In the photo above, Linda Schreck, (center) library assistant II, Kurt Baker, programmer/analyst, and Wayne Stump, in network operations with the University Libraries, discuss the new vision plan with Millie Monaco (left) and Tarra Peterson.

Photo: Annemarie Mountz

Shovel happy

About 300 people, like the McCrae family, answered the call for volunteers to shovel Beaver Stadium out from under more than 17 inches of snow. See story and photos on pages 10 and 11.



Special Intercom Notice

Dec. 7 is the last issue of *Intercom* for the year. *Intercom* will resume publication on Jan. 11, 1996. Deadline for copy to be published in that issue is noon Wednesday, Jan. 3.

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Inside



DIVERSITY

Puerto Rican Awareness Week

A music- and food-filled day was the culminating activity of Puerto Rican Awareness week on the University Park Campus on Friday, Nov. 17. Students, faculty, staff and friends were able to sample a mix of native foods (below) during the event, while the group Los Plenaros del Batey performed traditional Puerto Rican music. Puerto Rican Awareness Week helped draw to a close the November celebration of Hispanic Heritage Month. The final events scheduled are closing ceremonies and a dance at 9 p.m. Friday, Dec. 1 at the Nittany Lion Inn.



Photos Dwan Harbst



Plans made for MLK celebration on Jan. 15

The University will celebrate Martin Luther King Jr. Day, Jan. 15, 1996, with an original dramatic production, and will continue its commemoration with a yearlong focus on community service.

"We Are The Dream," an original dramatic presentation written by Charles Dumas, visiting professor of theatre, will be performed at 7:30 p.m. Monday, Jan. 15, in Eisenhower Auditorium on the University Park Campus.

The 45-minute presentation will use poetry, music, dance and theatre to sketch the story of the African-American struggle for freedom. Using the works of artists such as Maya Angelou, Lorraine Hansberry, Countee Cullen, Margaret Walker and Dr. King himself, the piece explores the difficult journey from slavery to universal civil rights.

"We Are The Dream" will feature students from the Department of Theatre Arts, under the direction of Professor Dumas; School of Music stu-

"Every man and woman must decide whether he or she will walk in the light of creative altruism or the darkness of destructive selfishness. This is the judgment. Life's most persistent and urgent question is, 'What are you doing for others?' Everybody can be great. Because anybody can serve. You only need a heart full of grace. A soul generated by love."

— Dr. Martin Luther King Jr.

dents directed by music instructor Tony Leach, and the NOMMO Dancers, choreographed and directed by Myrna Munchus-Bullock.

"Throughout the week and the year, activities will reinforce and recommit the University and community to the ideals and values associated with Dr. King's life, words and work," James Stewart, vice provost for educational equity and chair of the

commemoration planning committee, said. "An essential component of this commemoration is to exalt a commitment to service by the community."

Plans are now under way to identify service-learning opportunities for students, and community and campus service projects that will continue throughout the year.

Events to celebrate Martin Luther King Jr. scheduled so far include:

— Sunday, Jan. 14: The Forum on Black Affairs dinner at The Penn State Scanticon, featuring community and campus choirs and musical groups.

— Monday, Jan. 15: "We Are The Dream," a free dramatic presentation at 7:30 p.m. in Eisenhower Auditorium.

— Tuesday, Jan. 16: The Student Volunteer Fair at the HUB, sponsored by the Office of Student Activities, the AT&T Center for Service-Leadership and the Martin Luther King Jr. Planning Committee.

— Wednesday, Jan. 17: A Community Volunteer Fair for the residents of Centre County at the State College Area High School south cafeteria sponsored by the Volunteer Center of Centre County, the State College Area School District and the Martin Luther King Jr. Planning Committee.

The Martin Luther King Jr. Planning Committee also will distribute buttons and fliers to encourage faculty, staff, students and area residents to participate.

DIVERSITY

Mentoring program works to build interest in engineering sciences

Need a sure-fire way to get elementary and middle school students interested in the field of engineering sciences?

Get in touch with Harris E. Imadojemu, assistant professor in the Penn State Harrisburg School of Science, Engineering and Technology.

For two years, Dr. Imadojemu has been overseeing a mentoring program for sixth- seventh- and eighth-grade students in the Harrisburg and Susquehanna Township School Districts for two Saturdays a month.

A faculty member at Penn State Harrisburg for six years, Dr. Imadojemu proposed the idea for a mentoring program to the American Society of Mechanical Engineers as a means of attracting more African Americans and, women to the engineering sciences.

"As a member of the society's Board of Minorities and Women, I suggested that if we were really serious about putting together a national pool of minorities and women in the engineering profession, we should get moving on it," he said.

The society approved the plan and Penn State Harrisburg gave Dr. Imadojemu a boost by providing a computer classroom at the Eastgate Center to house the class.

Dr. Imadojemu wanted to start the mentoring program in Harrisburg's inner city so he contacted officials at the Ben Franklin and Hamilton elementary schools, who warmly welcomed the idea.

Initial program funding came from Campus Compact, part of President Bill Clinton's National Service Program. Funding to cover the 1994-95 and 1995-96 "schools" came in the form of a grant from the Whitaker Foundation.

This past year, 15 to 20 students were involved in the weekend program. In addition, during the week, the entire sixth-grade class from Ben Franklin used the Eastgate Center to



Program at work

Harris E. Imadojemu, assistant professor in the Penn State Harrisburg School of Science, Engineering and Technology, left, works with a student to help her gain interest in the engineering sciences.

perform some of the same tasks.

"With the assistance of their teachers, I set up a series of computer programs for the children to use to increase their skill level and their knowledge of computers," Dr. Imadojemu said. "We've got to catch these children very early and if we don't do that, we've lost them."

All of the work is directly related to activities in the school classroom. Once computer exercises are completed, the students can work on their homework, or tackle some of the engineering problems Dr. Imadojemu has set up for them.

"My own satisfaction is to have them come here to learn that science is not a mystery, and that math ability is not something you're born with. It's something you learn."

In addition, six Penn State Harrisburg engineering students have been involved in the mentoring program on a volunteer basis throughout the year. Dr. Imadojemu points out that because many of the students in the Penn State engineering and sciences program are white, the mentoring program is an excellent opportunity for them to have an inner-city experience and provide some much-needed and appreciated assistance.

DIVERSITY BRIEFS

Potluck dinner

The Unity Coalition of Centre County — a community group which co-sponsored many of the recent efforts against intolerance — is sponsoring a potluck dinner and meeting at 5 p.m. Sunday, Dec. 3 at the Friends Meeting House at 611 Prospect Ave., State College.

Everyone is welcome to attend and hear about what is going on in the community, as well as receive an update on some of the projects and issues the Unity Coalition is working on. Participants will also have the opportunity to hear about ways to get involved with our community efforts.

For more information, please contact Karen Feldbaum at (814) 863-9512 or Ann Ward at (814) 234-4978.

Winter festival

Ticket deadline for the Multicultural Winter Festival is Dec. 6. The annual festival is at 8 p.m. Saturday, Dec. 9, at the Nittany Lion Inn on the University Park Campus and features cross-cultural music, dance demonstrations and food, along with the band "Urban Fusion" with singer Terri Dowdy.

Call Michael Blanco, director of the Multicultural Resource Center, at (814) 863-7840 for tickets.

Listserve available

A listserv is available to discuss general diversity issues at Penn State. The purpose of this listserv is to disseminate event information and discuss issues related to all aspects of diversity in the university community.

To subscribe: Send E-mail to LISTSERV@PSU.VM.PSU.EDU with the following in the body of your note (NOT the header): SUBSCRIBE DIVERSE <your full name>. (You should NOT actually type in the <'s>, but use your name, such as "John Smith").

The discussions and information disseminated by this listserv are also available in the newsgroup: PSU.SOC.DIVERSITY.

NOMMO to celebrate Kwanzaa on Dec. 1

NOMMO Performing Arts Company will hold its sixth annual Kwanzaa Celebration at 7 p.m. Friday, Dec. 1, in the HUB Ballroom on the University Park Campus. The celebration includes an African-American cultural ceremony, African dance and drumming, community participation and a feast.

Advance tickets are \$4 for children under 12, \$6 for students with student ID and \$8 for the general public. All

tickets at the door will be \$8. Tickets can be purchased from any member of NOMMO.

Also, this year is NOMMO's 10th anniversary and Saturday, Dec. 2, will be devoted to master classes and a 10th anniversary reunion gala.

■ 10 a.m. — Master Dance Class. Glendola Yhema Mills, Temple University, "Umfundalai African Dance Technique." 108 White Bldg., \$10.

■ Noon — Drum Workshop.

James "Jumbe" Gilliam and Ray "Beanz" Ellis, Afro-One Dance, Drama & Drum Theatre Inc., Philadelphia, "African and Afro-Caribbean Drum & Percussion," 108 White Bldg., \$10.

■ 7 p.m. — 10th Anniversary Reunion Gala. NOMMO's 10th birthday celebration. Program, dinner and dancing. Bravo Bistro, Johnston Commons, University Park Campus. \$15 in advance; \$20 at the door.

Nominations sought for Pugh professorships

Nominations for Evan Pugh Professorships, the highest honor the University bestows upon faculty members, are being sought by the Office of the President.

The selection process is administered by the Office of the Senior Vice President for Research and Graduate Education. The selection committee will review nominations and make recommendations to the president by April 19. The Evan Pugh Committee members are: **Randall German**, Brush Chair, professor of engineering (chair); **Abhay Ashtekar**, Eberly Family Chair, professor of physics; **Leann Birch**, professor and head, Human Development and Family Studies; **A. Welford Castleman**,

Evan Pugh Professor of chemistry; **Baruch Halpern**, chair, Jewish Studies Program, professor of ancient history and religious studies; **Elliot Vesell**, chair and Evan Pugh Professor of pharmacology, professor of genetics and medicine; and **Stanley Weintraub**, Evan Pugh Professor of arts and humanities. **Ginny Imboden**, assistant to the senior vice president, will provide staff support.

The Evan Pugh Research Professorships were established Feb. 1, 1960, "to honor distinguished professors and recognize the importance of research in maintaining quality and progress in the work of the University."

The advantages recipients receive are recognition, improvement in salary, support for research or scholarship activities, and a degree of independence from normally assigned duties in their academic departments.

Professors are selected without regard to college affiliation, program or location. Professors are granted only to candidates whose research publications or creative work have been of the highest quality over a period of time.

In addition, "candidates must show evidence of having contributed significantly to the education of students which led to their recognition for excellence." Candidates also

must hold the rank of full professor with active status on Penn State.

The Evan Pugh professors are appointed by the president at the recommendation of the selection committee.

All nominations must be submitted according to established guidelines. Nomination guidelines may be obtained by calling (814) 863-9580, by E-mail message to vxi2@psu.edu, or by stopping in 207 Old Main. All nominations should be sent to Ms. Imboden in 207 Old Main. The closing date for receipt of nominating materials is Jan. 5, 1996. A total of 46 Evan Pugh professors have been named since the professorships were established.

Howard B. Palmer Faculty Mentoring Award nominations period will close on Jan. 19

Nominations for the Howard B. Palmer Faculty Mentoring Award may be submitted by faculty, staff and administrators until Jan. 19.

The award, named in honor of Dr. Palmer, senior associate dean of the Graduate School from 1985 until his retirement in 1991, recognizes outstanding achievement by a faculty member who effectively guides and nurtures the collegial and professional development of junior faculty.

A committee, appointed by the dean of the Graduate School with the assistance of the senior faculty mentor in the Office for Minority Faculty

Development, will select the recipient who will receive an award of \$500 and recognition at the Awards Convocation on March 31, 1996.

To be eligible, a faculty member must meet the following criteria:

- Be a full-time University faculty member with five or more years of active service at Penn State.

- Exhibit exemplary achievement in the effective mentoring of junior faculty members.

Evidence of these criteria should be presented through a completed nomination form and statement of support that clearly identifies the out-

standing qualities of the nominee. The statement should not exceed two single-spaced pages. Supporting materials may include a biographical sketch or curriculum vita, no more than three letters of support, and other information pertinent to the nomination.

Three copies of the nomination packet should be submitted to **Blannie E. Bowen**, 308 Kern Graduate Building on the University Park Campus. Nomination forms are available upon request from **Mary Leone** at (814) 863-1663. For more information, call Dr. Bowen at (814) 863-7850.

Awards honor students for achievements

Nominations for the President's Awards—which recognize students who have provided outstanding leadership, high academic achievement, citizenship or a combination of these traits—are due Jan. 12 in the Office of Student Life, 202 HUB, University Park. Nomination forms are available at the HUB/Kern desks or in 202 HUB, or by calling (814) 863-3786.

In addition, the University will also recognize an outstanding graduate student who has best combined high academic achievement with leadership.

The awards are:

- **The Eric A. Walker Award**—Recognizes students for leadership, citizenship, service and scholastic attainments;

- **The John W. Oswald Award**—Annually recognizes graduating seniors who have provided outstanding leadership in at least one of the following areas: scholarship, athletics, social services, religious activities and student government, journalism, speech and the mass media, and creative and performing arts;

- **Ralph Dorn Hetzel Award**—Recognizes students for leadership, citizenship, service and scholastic attainments; and

- **Graduate Student Service Award**—Recognizes an outstanding graduate student who has best combined high academic achievement with leadership.

The committee, which reviews nominations is chaired by **Carol German**, associate director of student activities, and is composed of representatives from Student Affairs, the University Faculty Senate and the student body.

For more information about the awards, call (814) 863-3786.

Administrative Fellows candidates wanted

The Office of the President is seeking applications and nominations for the Administrative Fellows Program for 1996-97. Three fellows are being sought, one to serve under the mentorship of **John A. Brighton**, executive vice president and provost; one to work under **Gary C. Schultz**, senior vice president for finance and business; and the third to serve with **Robert E. Dunham**, senior vice president and dean, Commonwealth Educational System. Nominations are due by March 1, 1996.

The Administrative Fellows Program provides career development opportunities for women and minority faculty and staff. By serving under the mentorship of a senior level administrator, fellows who are seeking the background necessary to compete at higher levels of administration, will have an opportunity to broaden their perspectives and experience in higher education administration. Such an experience is designed to allow fellows to become more effective in their existing positions within the University and to provide a base for them to consider further advancement in the future.

Objectives of the program include:

- To identify women and minorities who have potential for effective leadership.

- To increase the Administrative Fellows' awareness of the complexity of issues facing higher education and to enhance their understanding of the environment in which decisions are made.

- To provide opportunities for Administrative Fellows to participate in a wide range of decision-making processes, learning activities and program management so they will be better equipped to understand the challenges of higher education administration upon completion of the fellowship.

Although completion of the program does not guarantee appointment to an administrative position at the University, people who complete the program increase the pool of women and minorities interested in pursuing careers in University administration.

The selection criteria are:

- Full-time faculty or staff members; demonstrated success in current positions and interest in an administrative career; evidence of leadership experience and decision-making ability; ability to relate effectively with students, faculty and staff; an understanding and appreciation of cultural, ethnic and individual differences; and a willingness to accept a wide variety of assignments.

Women and minorities meeting these qualifications at all University of Pennsylvania are strongly urged to apply. Each successful candidate will be placed on leave of absence from her or his current position and continue to receive a regular salary. The starting dates of each fellowship may vary depending on the office and the fellow's commitments.

The successful Administrative Fellows will develop learning plans outlining activities for the year, in consultation with the mentors.

The program is competitive. A screening and interview committee will recommend candidates. Serving on the committee will be a representative from the Commission for Women, representatives from the office where the fellows will be placed, a past fellow and a representative from the Office of Human Resources.

Applications for the Administrative Fellows Program are available from the Office of Human Resources at (814) 865-1387. Applications should be returned to the Office of Human Resources, Box 6, Rider Building, as soon as possible, but no later than March 1. For more information, call **Robert L. Kidder**, at (814) 863-4606.



Setting wired

Electricians Pat Corman (left) and Glenn Walstron from the Office of Physical Plant work on the wiring in Henderson Building on the University Park Campus. The work is the second part of a three-phase project to upgrade research space in the building for the Department of Nutrition.

Photo: Greg Grieco

Research center

continued from page 1

support system for investigators here to complete their studies."

Having a GCRC is one of the criteria by which medical centers are judged as first-class research institutions, according to program director Dr. Andrea Dunaf, professor of medicine and cellular and molecular physiology at the medical center and head of the section of diabetes and metabolism.

"It shows the commitment the medical center has to research," she said. "Also, if you don't have a center like this, it limits the kind of faculty you can recruit. A lot of faculty have to have facilities like this to conduct their research."

Dr. Gordon Kauffman, chair of the GCRC Advisory Committee, said the GCRC funding is "the most significant event in supporting clinical research since the medical center opened." Some 70 such facilities exist nationwide.

Dr. Kauffman, chief of general surgery and professor of surgery, said the GCRC's "real importance lies in the capability it will give us to do clinical research studies we couldn't do before. It will attract additional research dollars and is an acknowledgment that we have arrived as a major academic research center."

GCRC sites will have a permanent staff and will support clinical research without respect to divisions or departments throughout the Penn State system. However, priority will be given to NIH-supported projects.

A considerable amount of clinical research already takes place at Noll Lab. Current projects focus on how older adults regulate body temperature in heat, metabolic and nutritional changes that occur with advancing age, and the role of diet and weight loss in ameliorating diabetes. Other studies define protein requirements of the elderly and show how strength training and other forms of exercise affect the health and functioning of frail elderly.

Final hearing on higher education is repeat of previous sessions

Penn State's tuition discount program provides great benefits at comparatively low costs to Penn State employees, to the entire university and to the state. John A. Brighton, executive vice president and provost, told state legislators Nov. 16 in Harrisburg.

"This is an important benefit, and we would like very much to retain it," he said at a roundtable discussion held by a state House of Representatives select committee. "It is part of a comprehensive benefit plan for our employees. It doesn't cost that much, compared to other benefits, but it has a tremendous impact."

Dr. Brighton said that Penn State's tuition discount program helps attract and retain high-quality faculty and staff and boost the quality of the state's current and future work force.

Penn State competes with other Pennsylvania public and private institutions of higher education and with Big Ten institutions for faculty and staff, and "we would be at a disadvantage" if the benefit were removed, he said.

Under the tuition reduction program, University employees, their spouses and their unmarried children are eligible for 75 percent discount on tuition. The benefit is not portable to other institutions and is subject to several limits. More staff than faculty use the program.

The Nov. 16 roundtable discussion

was the fourth and final planned meeting of the House Select Committee on Higher Education, which is chaired by state Rep. John Lawless (R-Montgomery). Over the past several months, the committee has been looking at the number of hours faculty spend in the classroom, reductions in travel by university personnel and the curtailment of sabbaticals, among other things.

The committee's stance on tuition discount programs and other practices seemed to have softened somewhat at last week's hearing. Rep. Lawless, the committee chairman, appeared to give some support to Penn State's tuition discount program by referring to the "Penn State model" in his introductory remarks.

Rep. Lawless also said that he has no problem with a 100 percent tuition reduction for employees of colleges and universities, and said that grandfathering the benefit for the dependents of university employees (who also have the benefit) has been mentioned as an option. He also said he would not want to eliminate sabbaticals for faculty members, but suggested criteria for their consideration.

However, Rep. Lawless did say that state government has to cut the growth of support to higher education. "We've got to start saying, 'Guys, we've got to start slowing down higher education.' We've got to get a grip on this."

Philadelphia

continued from page 1

mately 12,000 Philadelphia-area youngsters in leadership and youth development programming;

- Urban Gardening Program, assisting nearly 3,000 Philadelphians to turn vacant neighborhood lots into community food gardens;

- Expanded Food and Nutrition Education Program; which brings nutrition counseling and education programs to more than 300 families with school-age children and teen parents in all parts of Philadelphia.

- Family Living program, which trained more than 350 child care providers in the "Better Kid Care" program last year, and helps families manage their money through workshops and other programs;

- Penn State entomology services, which offer in-depth training and other services to Philadelphia health agencies and the pest control industry.

In addition, Penn State's Community Recruitment Center provides counseling to prospective college students and has expanded its outreach efforts to students of color in particular, visiting students in their homes and offering financial aid workshops at the Delaware County and Abington-Ogontz campuses.

Penn State's Continuing and Distance Education services reach 200,000 Pennsylvanians a year, including more than 21,000 in Philadelphia. Clients range from professionals who need to learn the newest advances in their field to corporations seeking specific training, to returning adult students interested in obtaining a degree.

In addition, the Development and Alumni Relations Division will have an office in the building for outreach and community efforts.

"By bringing our University outreach operations into one building, we have created a critical mass of services for the city and its people," William Asbury, vice president for student affairs and chair of the task force for the Market Street center, said. "A Philadelphia Coalition, comprising University representatives, is coordinating the Penn State initiatives and developing a strategic plan to coordinate more closely and perhaps develop new ideas and programs to better serve the residents of the region."

The final stops in the 1995 portion of the president's tour include a Dec. 7 visit to the Shenango Campus and a Dec. 21 visit to the Beaver Campus.

—Vicki Fong

From the Trustees Docket

Design plans approved for Behrend and Mont Alto projects

Final plans for a Bookstore Building at Penn State Mont Alto and sketch/preliminary plans for an Honors Interest House at Penn State Erie, The Behrend College, have been approved.

At Mont Alto, the Bookstore Building is designed by Noelker and Hull Associates Inc., Chambersburg, at a budget of \$1.32 million. When finished, it will be reminiscent of civilian Conservation Corps buildings of the 1930s, resembling a mountain lodge with porches for student use and a double-high ceiling with exposed wooden beams. The existing double cottage will be removed to allow for construction of the 8,458-square-foot, two-story structure.

The Bookstore Building will be set into a hillside, allowing ground-level entrance to both the bookstore on the upper level and a learning center with classrooms and offices on the lower level.

At Erie, the sketch/preliminary plans for a lodge-style, 136-bed Honors Interest House are by Robert H. Hoffman Associates, Boalsburg. The approximately 32,700-square-foot, five-story building will be set into a hillside and will house students in the



Plans find favor

Preliminary plans for an Honors Interest House at Penn State Erie, The Behrend College have been approved by the Board of Trustees. Here's an artist's rendering of the proposed structure, a five-story building that will house 136 students in the University Scholars Program. The trustees also gave final approval to the bookstore at the Mont Alto Campus.

University Scholars Program in double rooms.

The Honors Interest House will also include study lounges, a comput-

er room and a two-bedroom apartment for scholars-in-residence. Total project budget is a little more than \$4 million.

CES campuses report jump in enrollment

Last month, the University announced new all-time records for the 1995-96 academic year in the total number of students enrolled systemwide, in incoming freshmen at University Park and in minority students systemwide.

This month, Penn State has more good news to report: the second largest freshman class ever at Commonwealth Educational System campuses (the all-time high was in 1988).

"Across the Commonwealth Campuses, enrollment increased by more than 1,400 students or 6.5 percent, reversing a two-year enrollment decline," John Romano, vice provost for enrollment management and administration, told the Board of Trustees on Nov. 17. "This is a significant change and a substantial accomplishment."

Also, Dr. Romano pointed out, there was an increase in the size of the summer/fall 1995 class of new baccalaureate and associate degree freshmen at every CES campus.

Dr. Romano also cited figures that indicate the quality of incoming students, including:

- One hundred eighty-two of Penn State's new freshmen were ranked No. 1 in their class, a 24 percent increase over the number of No. 1-ranked freshmen in 1994.

"Across the Commonwealth Campuses, enrollment increased by more than 1,400 students or 6.5 percent, reversing a two-year enrollment decline."

John Romano
vice provost
enrollment management
and administration

- Of the new freshmen, 23 percent are in the top 10 percent of their class, and 61 percent are in the top 30 percent.

- Sixteen percent of the fall 1995 freshman class brought with them college-course credits or the equivalent (which are generally earned by taking advanced placement courses while still in high school). The total figure of 18,358 credits these students earned before starting college represents a 36 percent increase over the number of college-course credits earned by last year's incoming freshman class.

Last month, Penn State reported that:

- At 71,870, systemwide enroll-

ment in fall 1995 is 4.4 percent higher than fall 1994 enrollment. The figure represents the largest annual increase in at least nine years and an all-time high enrollment at Penn State.

- Undergraduate admissions (new baccalaureate and associate degree freshmen) show a rise of nearly 24 percent — 13,419 in fall 1995, compared to 10,847 in fall 1994. It is the largest freshmen enrollment in the history of the University.

- Minority enrollment is now at 6,372, an increase of 646 or 10.6 percent over last year. The total minority enrollment figure represents an all-time high, and percentage of minorities in the total student body (9.4 percent) is also the highest in University history.

- Enrollments of African American, Hispanic and Asian American students are all at all-time highs. This year, 2,598 African American students are enrolled, 11.9 percent more than last year; 1,383 Hispanic students are enrolled, 15 percent more than last year; and 2,638 Asian American students are enrolled, 7.8 percent more than last year. Asian Americans constitute the biggest minority group at Penn State.

Altoona Campus master plan gains approval

The Board of Trustees approved a campus master plan Nov. 17 for the Penn State Altoona Campus, which will allow for expected growth in student enrollment and new academic programs.

The Altoona Campus occupies nearly 82 acres in Blair County and retains a wooded atmosphere, even though about half of it is within the Altoona city limits. Enrollment there is expected to jump from its current level of about 2,900 to more than 3,000 with the introduction of new nursing and engineering technology programs.

In addition to existing teaching and administrative facilities, the current 18-building physical plant at the campus includes three residence halls, a food services building, a student/faculty center, a bookstore, an athletic complex, a community arts center, a library/computer center and a chapel. To increase general classrooms, technology classrooms and faculty research space, future building projects are expected to include a new academic building and the addition of the Ralph and Helen Force Advanced Technology Center to the Holtzinger Engineering Building.

Student activities are addressed in the master plan with a number of facilities. Indoor athletics will be enhanced with the addition of weight room space to the Adler Building; the Slep Student Center will be renovated; and additional bookstore space will be provided by an almost completed addition to the existing facility.

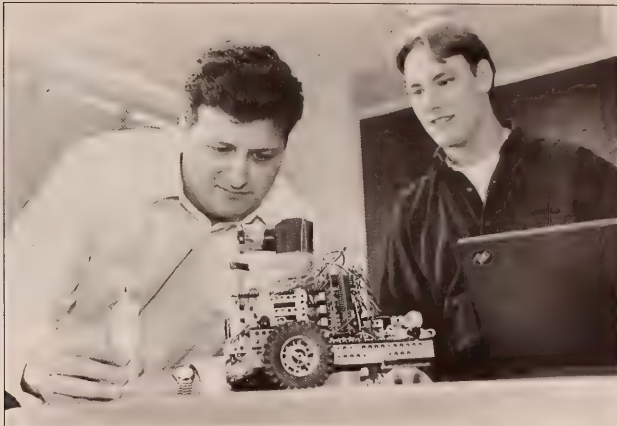
In order to meet the growing demand for student housing, a 320-bed residence hall is being designed for construction near the existing residence halls.

Parking and vehicular circulation will be improved with the addition of a 200-space parking lot currently under construction, and a proposed internal bulkhead link linking the main entrance on Juniata Gap Road. The bulk of existing parking is on the west part of campus. Future parking expansion areas are also being set aside to accommodate another 400 vehicles. The parking in front of Smith Building can then be eliminated in order to enhance the pedestrian character of the area between the academic and student activities cores.

Efforts will be made to enhance the campus stream area and the existing green areas between Adler and Smith buildings and north of the campus pond.

The Campus Advisory Board is continuing to pursue acquisition of neighboring properties, which will enable contiguous development of the campus for current and future needs.

From the Trustees Docket



Robot in action

Robert Avanzato, associate professor of engineering at the Penn State Abington-Ogontz Campus, left, and Dave Schaller, a sophomore at the campus, test a robot built as part of a Schreyer Institute-supported innovation project. The robot was designed to navigate a maze, find a lit candle using an infrared sensor "eye" mounted in a black plastic film canister, and squirt water on the candle to extinguish the flame. The robot was demonstrated for the Board of Trustees on Nov. 17.

Photo: Greg Grieco

Fledgling Schreyer Institute focuses on active, collaborative learning

The William A. and Joan L. Schreyer Institute for Innovation in Learning, just under a year old, is trying to help University faculty focus on learning and the learner and to change the role of the teacher from that of dispenser of wisdom to designer and coach.

Larry D. Spence, associate professor of political science and co-director of the institute, told the Board of Trustees Nov. 17 that the institute's vision "is an academic culture of active and collaborative learning that helps develop Penn State graduates into extraordinary problem-solvers, problem-seekers and life-long learners, prepared to regenerate and sustain their families, communities, businesses and the nation."

Its mission, he said, "is to promote a partnership between students and faculty to design, conduct and engage in problem-focused, problem-framing learning experiences that foster inquiry, initiative and teamwork."

Over the past year, the institute has encouraged such partnerships by sponsoring 15 "innovation projects" that involve disciplines such as chem-

istry, agricultural economics, health policy administration, statistics, political science, psychology, computer science, sociology and engineering. The projects are based in six colleges and in six different campuses.

Results are promising, Dr. Spence said. The projects give students not only the opportunities to use new research tools, but also a "sense of power" created by doing the research themselves.

Ten more innovation projects are set for the spring semester, and the institute is currently evaluating more than a dozen proposals for next fall. It's also beginning projects to introduce collaborative learning in classes with more than 200 students and exploring the possibility of pilot programs in general education.

Other institute activities outlined by Dr. Spence include an experimental summer academy being planned for incoming freshmen in 1996. Called LEAP, for Learning Edge Academic Program, it will explore ways to introduce new students to collaborative learning and the use of computers in inquiry and in student-initiated research.

The LEAP project is co-sponsored by Summer Sessions, the Leonard Center for Innovation and Enhancement of Engineering Education and the English and speech communications departments, with support from the vice provost and dean for undergraduate education, the Division of Undergraduate Studies, and the admissions and residence life offices.

The institute is named for Board of Trustees Chairman William A. Schreyer and his wife, Joan.

The Schreyers have made many significant gifts to the University over the years, including \$1 million to underwrite the costs of renovating the on-campus, University-owned property that will serve as the president's residence. Net proceeds from the sale of the former presidential residence, estimated at about \$700,000, will be used to support the institute and its programs.

Next month, the institute is scheduled to move into new offices in Rider II Building, just off campus on S. Burrows St., State College.

HUB/Robeson architect named

In its Nov. 17 meeting, the Board of Trustees approved Williams Trebilcock Whitehead of Pittsburgh as the architect for the Hetzel Union Building addition/Paul Robeson Center on the University Park Campus.

The project calls for the renovation and expansion of the HUB and a new Robeson Cultural Center. Constructed in 1955 and expanded in 1974, the HUB has provided out-of-class learning experiences and served as a community center for University, students, faculty, staff, alumni, administrators and visitors.

An evaluation of the HUB use over the last five years shows a large increase in the number of people using the building from 18,000 per day to approximately 25,000 a day. Events scheduled in the facility increased from 6,500 in 1988 to 6,900 in 1994. The HUB is well below the average student programming space at other Big 10 universities.

The Paul Robeson Cultural Center is currently in a 1942 structure. Its mission is to promote African-American and other minority cultures, and to encourage intercultural interactions among students, faculty, staff, alumni and visitors.

Over the past years, the center also has experienced a jump in the number of events from 426 to 561, and in the number of participants from 11,000 to 24,000. The changing demographics for underrepresented students indicate greater demands and needs for the future.

In addition, the expanded HUB/Robeson facility also will fulfill a special need for the surrounding community. More than 30,000 faculty, staff and students commute daily from local communities to the University Park Campus. The new facility will serve these commuters as a gathering place for activities and fellowship.

The total project cost is estimated at \$22 million. About \$3.6 million has been raised in private support and the rest will be provided from University funds.

Williams Trebilcock Whitehead has designed similar projects such as the Powell Campus Center at Alfred University in upstate New York and the Elmo Natali Student Center at California University of Pennsylvania.

The Pittsburgh architectural firm has designed many Penn State projects including the additions to the Nittany Lion Inn, Research East, Academic Activities Building and most of the buildings at the New Kensington Campus.

From the Trustees Docket

Stone Valley lake named after Lawrence J. Perez

The Board of Trustees approved the naming of the lake at the Stone Valley Recreational Area in honor of the late **Lawrence J. Perez**, former faculty member in the Department of Civil Engineering and developer of the lake.

Dr. Perez served as professor of civil engineering and assistant dean of the College of Engineering before retiring in 1970. He was president of the State College Borough Council from 1960 to 1973, acting mayor of State College in 1967 and 1968, and a past director of Mid-State Bank. He died in 1988 at the age of 81.

Starting in the 1940s, Dr. Perez oversaw various upgrades to the Stone Valley land then owned by the federal government and home to the University's civil engineering summer camp. In 1954, the land was ceded to the University and in 1961, Dr. Perez's long-held dream of damming Shaver's Creek became a reality.

Today the 72-acre artificial lake is the centerpiece of the 700-acre site.

Historically, Stone Valley was also home to many activities of the School of Forestry and the former College of Mineral Industries.

Stone Valley Recreational Area is located off Route 305 in Huntingdon County, about 10 miles south of State College.

Lake Perez reaches a depth of about 30 feet and is open to private boating with the purchase of a permit. It is also open to the public for wintertime ice skating, and rental canoeing, rowboating and sailboating.

The waters of the lake and Shaver's Creek are stocked with rainbow trout, bass, pickerel and other species and can be fished from the opening of the



Honored

The lake at Stone Valley has been named after the late Lawrence J. Perez, who developed the lake in 1961.

Photo: Greg Grieco

trout season in April through the winter. Several beavers reside in the area and the lake is a popular stopover for migrating waterfowl.

Along and near the shores of Lake Perez are family cabin accommodations, camping and picnic sites,

the Shaver's Creek Environmental Center and its Raptor Rehabilitation Center, the Civil Engineering Lodge (a large-group rental facility), a boathouse, and miles of hiking and skiing trails.

Trustees receive proposal for a new campus master plan

The University is about to embark on a two-year Campus Master Planning process that will guide the future development of the University Park Campus into the 21st century.

The configuration of its buildings, walkways, open spaces and utility systems has been guided by a master plan first developed in 1907 and periodically updated as new opportunities developed. But much has changed since its last major update in 1987. Academic departments, originally clustered by college, are now just as likely to work closely with departments in other colleges across campus or across the country. The more restrictive financial climate in which universities now operate also has physical implications, limiting the range of choices as new demands for space emerge.

These issues were addressed at a campus master planning workshop last June, and led to the proposal for a new campus plan. The plan is projected to take about 24 months to complete.

"The purpose of a campus master plan is to give the University an opportunity to take stock, look to the future and create a road map to guide our course in the years to come," Gary Schultz, senior vice president for finance and business/treasurer, said. "The campus master plan is a process that



Part of the plan

Construction on the former White Golf Course has been stalled for the winter. The area is the future site of replacement intramural fields, and falls under the site plan extending the 1987 Master Plan, the first to stretch the traditional boundaries of the University Park Campus.

Photo: Greg Grieco

establishes a collective vision for the physical facilities of the University that will result in a comprehensive plan for the future. Such a plan can translate the University's educational values, mission and academic vision into a model for physical development."

The planning process involves four basic steps: taking inventory of all the existing resources, soliciting input from constituencies, analyzing the data and developing options, and preparing a final document of recommendations. In doing so, the plan will contain recommendations on

- the use of existing facilities, including those currently in design;
- environmental and architectural components;

- space planning, including a comprehensive review of programs with special consideration to the research, outreach and support components of the University;

- land use for future development;

- transportation issues as they relate to both town and campus, including bus, car, bicycle and pedestrian traffic, parking and the operation of fire, security and emergency vehicles;

- utility infrastructure; and
- landscape and open space, which are significant contributors to the overall character and visual quality of the environment.

The campus Master Plan Steering Committee, under the direction of Mr. Schultz, will be composed of a faculty design coordinator, who will be the liaison with the academic community; an outside professional planning consultant experienced in comprehensive campus planning, who will chair the committee; and the university architect, who will serve as project director. An advisory committee representing academic and administrative interests also will be formed to review and comment on the plan throughout the process.

Partings

Evalina Bonilla, nutrition education adviser in Berks County, retired Sept. 1 after more than 25 years of service at the University.

Florence L. Confer, project associate in the College of Agricultural Sciences, from Sept. 1, 1966, until her retirement Oct. 17.

Lucy L. Dean, nutrition adviser in the College of Agricultural Sciences, from Jan. 31, 1969, until her retirement Oct. 1.

Myron L. Ebersole, coordinator, Hospital Chaplaincy Program, The Hershey Medical Center, retired Oct. 17 after 17 years of service.

Anna L. Frazier, staff assistant IV in the Research and Graduate School, retired Nov. 1 after 12 years of service at the University. She began working July 15, 1983.

Promotions

Staff

Carolyn A. Andersen, conference planner in Continuing and Distance Education.

Johanna R. Baitinger, administrative assistant I at Penn State Great Valley.

Richard J. Bartolomea, conference planner in Continuing and Distance Education.

Lori F. Benson, conference planner in Continuing and Distance Education.

Corinna R. Bressler, staff assistant VII in College of Communications.

Lorraine B. Burke, staff assistant VII at Penn State Great Valley.

John B. Carnicella, lead applications programmer/analyst in the Office of the President.

Conal F. Carr, assistant director, Student Affairs, at Penn State Berks Campus.

Jean Chamberlin, lead applications programmer/analyst in the Office of the President.

Tresa A. Ciprich, staff assistant VI in Division of Development and University Relations.

Paul E. Derrickson, coordinator, Hospital Chaplaincy Program, at The Hershey Medical Center.

Sandra D. Edwards, administrative manager, Campus Student Affairs, in Student Affairs.

Wendy G. Eidenmuller, staff assistant VI at Penn State Erie, The Behrend College.

Kim Evancho, human resources manager in the College of Agricultural Sciences.

Steven W. Focht, lead applications programmer/analyst in the Office of the President.

Tracey E. Galloway, staff assistant VI in the College of the Liberal Arts.

Alan J. Grill, manager, Human Resources in the College of Education, retired Oct. 2 after more than 16 years of service at the University.

Urania B. Linn, senior extension agent in the College of Agricultural Sciences, retired Oct. 1 after 39 years of service.

Lee M. Nesbit, group leader, janitorial worker, the Penn State York Campus, retired Oct. 1 after more than 12 years at the University.

Arlene W. Packer, staff assistant V in the College of Health and Human Development, retired Oct. 1 after 17 years of service.

Phyllis G. Payne, staff assistant VI at the Penn State Delaware County Campus, from Sept. 4, 1979, to Oct. 21.

Deloris J. Gearhart, staff assistant IV at Penn State Wilkes-Barre Campus.

Judith M. Hall, conference planner in Continuing and Distance Education.

David J. Hansen, assistant to the dean, Administrative Services, at Penn State Harrisburg.

Charles C. Herd, conference planner in Continuing and Distance Education.

Bonnie K. Higgins, senior research technologist in the College of Agricultural Sciences.

Edward J. Hinkle, lead applications programmer/analyst in the Office of the President.

Marcella L. Immel, information technology planning analyst in the Office of the President.

Judith L. King, staff assistant V in Continuing and Distance Education.

Diane M. Kocivar, staff assistant VI at The Hershey Medical Center.

Donald R. Kunst, assistant manager, pre-hospital services, at The Hershey Medical Center.

Neil A. Leidy, senior applications programmer/analyst in Computer and Information Systems, Office of Administrative Systems.

Guo Yang Lin, research technologist in the College of Agricultural Sciences.

Lisa M. Ludwig, staff assistant VII in the Office of the President.

Melinda A. McCane, staff assistant V in Housing and Food Services.

Rosemary E. McCusick, information technology planning analyst in the Office of the President.

Patricia A. Mihaly, senior applications programmer/analyst at Penn State Berks Campus.

Elizabeth C. Schall, assistant

Donald R. Peterson, guard I, Applied Research Laboratory, from Sept. 1, 1976, to Oct. 1.

Shirley A. Reichard, mail clerk, Business Services, retired Oct. 3 after 16 years of service.

Beverly A. Tuley, staff assistant V in the College of Engineering, from Sept. 6, 1963, until her retirement Nov. 3.

Ben W. Twilight, associate professor of forest resources, College of Agricultural Sciences, from July 11, 1978. Retired Oct. 1 after 17 years at the University.

Harry W. Weller, University physician, Sports Medicine, from Aug. 2, 1982, to Oct. 3.

Guy J. Zeigler, food service worker B at Penn State Harrisburg, from Sept. 6, 1977. He retired Oct. 28.

nurse manager at The Hershey Medical Center.

Claudia Sellers, reimbursement analyst at The Hershey Medical Center.

Barbara A. Snesavog, staff assistant VI at The Hershey Medical Center.

Sandra L. Stillo, staff assistant VII at Penn State Harrisburg.

Cynthia L. Strine, staff assistant V at The Hershey Medical Center.

Beverly J. Whitman, staff assistant V at The Hershey Medical Center.

Diana L. Wolfgang, staff assistant VI at Penn State Erie, The Behrend College.

Technical Service

Arthur L. Beveridge, maintenance worker (general) B in Office of Physical Plant.

Terry S. Brungart, group leader, Area Landscaping Maintenance, in Office of Physical Plant.

Paul R. Curtis, groundskeeper, golf course, in Intercollegiate Athletics.

Robert T. Dillon, operating mechanic in Office of Physical Plant.

Ronald E. Foster, guard I in Applied Research Lab.

William B. MacFarlane, maintenance mechanic, Vehicle and Grounds Equipment, at Penn State Harrisburg.

Edna M. Mercado, janitorial worker at Penn State Harrisburg.

Tammy M. Neely, patient care assistant A at The Hershey Medical Center.

Olen K. Parker, mechanic, Vehicle & Body Repair, at Penn State Harrisburg.

Thomas W. Zawislak, maintenance worker, Landscape, at Penn State Berks Campus.

EMPLOYEE BENEFITS

A regular column provided by
the Office of Human Resources

Frequently asked questions

Q: What are the changes to the University's Vision Plan effective Jan. 1, as a result of the change of plan administrators?

A: The maximum benefit payable and items covered under the Penn State Vision Plan remain unchanged. National Vision Administrators (NVA), the new plan administrator, provides a network of participating vision care providers. These providers agree to accept as full reimbursement the amount paid by the plan for a vision exam. Additionally, they agree to provide a selection of frames that are within the frame allowance. Lenses also will be provided at the amounts established by the plan.

It is important to note, that if a participant selects frames that are above the frame allowance, or chooses a lens option not covered, participating providers agree to provide these items at a substantial discount.

Q: What is the discount arrangement for charges for frames and lenses that are above plan limits or not covered?

A: Any additional charges for lenses or frames will be based on the wholesale cost of those items. With regard to frames, the participant would be charged the difference between the wholesale cost and the plan allowance, plus 20 percent of the difference. NVA reports that the mark-up on frames is typically three to four times the wholesale cost. Out-of-pocket expenses to participants should be significantly reduced when a participating provider is used.

If a participant selects a lens option which is not covered, the provider may charge only his or her wholesale cost for the option plus 25 percent of the wholesale cost.

Q: Is the Penn State Vision Plan now limited to NVA participating providers?

A: No. Faculty and staff members and their dependents are free to use any vision care provider for exams and for lenses and frames. The reimbursement amounts will be the same as they have been when the plan was administered by Prudential. However, nonparticipating providers will not be bound by the special discount arrangements.

Q: What are the procedures for reimbursement?

A: When a faculty and staff member and/or dependent wishes to use a participating provider, a toll free call must be placed to NVA at 1-800-526-7813 to receive a voucher. A voucher and a list of participating NVA providers will be mailed within 24 hours. The voucher is presented to the provider at the time of the appointment.

If a nonparticipating provider is used, a claim form must be submitted to NVA for reimbursement. The claim forms are available from NVA or the Employee Benefits Division.

DEFYING MOTHER NATURE

Near-Herculean effort undertaken

By now, it may all seem like a bad dream, but it was definitely one for the record books.

The early winter storm that pounded Pennsylvania on Nov. 15 — knocking out power to more than 100,000 customers statewide, toppling trees and dumping up to 32 inches of snow in some areas — raged through the Centre region, leaving in its wake millions of dollars of damage to landscape on the University Park Campus.

At University Park, like other areas across the Commonwealth, more than 17 inches of wet, heavy snow piled up, causing towering trees to snap like twigs or be ripped from the earth, roots and all. Initial estimates on the damage to the landscape at University

Park range from \$2 million to \$4.5 million.

The load of knee-deep white stuff also left University officials scrambling to find a way to clear the estimated 3,000 tons of snow from the inside of Beaver Stadium in time for the sold-out Penn State-Michigan game scheduled for Nov. 18.

In the end, more than 300 people — including staff, alumni, students, community members and low-security inmates from three area prisons — pulled off the near-Herculean effort of clearing the field and the 96,967 seats in the stadium, plus parking areas.

But despite the massive cleanup at the stadium and the coordinated communication effort that allowed

"This is the worst storm I've ever seen in my experience as an arborist."

Jeff Dice
University tree surgeon

the game to go on without a hitch (see story below), cleanup on campus is nowhere near complete and will probably continue through spring.

"I can only describe the damage to the trees as major devastation," Jack Lingenfelter, supervisor of ornamental horticulture and arboriculture for the University, said. "About 50 percent of our 11,500 trees are damaged in some way or another. We're still assessing the damage, but we've definitely lost six elms."

"This is the worst storm I've ever seen in my experience as an arborist," Jeff Dice, one of three University tree surgeons trained to do high climbing, said. "Most of the major trees on campus have been impacted in some way, many severely."

The nature of the storm — coming in mid-November and packing a weighty wallop — along with the fact that many of the trees and shrubs still held their leaves, proved a hazardous combination. Tree canopies became perfect hammocks for the snow. In those first hours after the storm, while some crews from the Office of Physical Plant worked to make passable most of the campus' 35 miles of sidewalks and 31 miles of roadways, others began a cutting and clearing operation of brush, dead limbs and hanging limbs that hasn't stopped yet. In the days immediately following the storm, OPP crews worked 48 hours straight with minimal breaks.

"Right now we're using the high reach with two people in it...one guy grabs a limb and the other cuts and they toss it down to the ground crew," Drew Beben, University tree surgeon, said. "We worked until 9 each night, got a few hours of sleep and were back at it at 1 a.m."

Mr. Lingenfelter said crews quickly traveled campus to identify hazardous areas where hanging limbs or splintered branches could pose a safety concern.



Change of pace

In lieu of their usual morning workout, the Marine Corps ROTC unit at Penn State, Nov. 17, to help shovel out the stands.

"We haven't even addressed the small plantings around buildings. Some trees where the snow just took their tops right off may have to be felled because once that happens, it introduces rot," he said.

With 545 acres of ground to cover on the central campus, including 36 acres of shrub and flower beds, Mr. Lingenfelter knows the cleanup of the damage caused by the storm will continue well into the spring — recovery, however, could take decades.

"This is a once-in-a-50-year storm," Steve Grenoble, lead man on the tree cutting crew, said. "We take extremely good care of our trees and I don't know what else could have been done. You can't plan for something like this."

— Lisa M. Rosellini



Lending a helping hand

State College resident Dawn McCrae picked up her shovel Friday, Nov. 17, to help the University with its snow-removal effort.

Photo: Greg Grieco

Community

The phrase "together we move mountains" never truer than after the recent



Debris removal

Office of Physical Plant employees, Nov. 17, grinding fallen trees on the University Park Campus.

en to clear 3,000 tons of snow



University Park Campus reported for duty at Beaver Stadium Friday, Nov.

Photo: Annemarie Mountz



Preventive measures

Office of Physical Plant tree crew members Jeff Dice and Drew Beban worked in the treetops Friday on College Avenue where the University Park Campus meets downtown State College to remove branches weakened by the snow.

Photo: Annemarie Mountz

ty pulls together to clean up in aftermath of early winter storm

can
proved
now-

storm that dumped more than 17 inches of snow on Beaver Stadium. Together, more than 300 people

literally moved a mountain of snow — seven acres of the wet stuff that, according to structural engineers, weighed about 3,000 tons — by shoveling round-the-clock for 21½ days straight. Not all of the snow was removed, but the backbreaking efforts of the 47 community and student organizations and the more than 300 individuals allowed the Nov. 18 Penn State-Michigan game to go on as scheduled.

"I've worked parking here and at two other Big 10 institutions for 35 years

and I've experienced snow before, but nothing of this magnitude," Dave Stormer, assistant vice president for University safety, said. "Despite the storm, the game went on like any other game and the community cooperated beautifully."

A number of local businesses agreed to allow their parking lots to be used as satellite parking areas/shuttle bus sites for the game. Eighty shuttle buses transported Nittany Lion fans to and from the game, while the new student-operated radio station, WKPS 90.7 FM, helped give directions to incoming travelers braving the roads on their own.

"The dedication of everyone involved was amazing," Dave Burns, manager of utility operations for the University, said. "We're used to reacting to snow storms, but this was a whole new ball game. It was such a tremendous effort on everyone's part and watching all that snow be moved was incredible."

The following groups either helped shovel or contributed vital services to the University:

Alpha Community Ambulance Service
Alpha Gamma Delta
Alpha Gamma Rho fraternity
Alpha Phi Omega service fraternity
Architectural Engineering Graduate Student Association

ATO Technologies USA
Wells Market
Beta Sigma Beta

Big Brothers/Big Sisters program
Big Lots on Benner Pike
Business and Society House
Cub Scout Pack 59, Port Matilda
Cub Scout Pack 383, from Our Lady of Victory School

Delta from State College Area High School
Delta Zeta sorority
Dill Ice Hockey Club
Easter Seal Society
Grace Presbyterian Church
Graduate students in communications
HRB Systems
International Christian fellowship
International Language House
Joesten's Printing and Publishing
Justice Association
Kappa Alpha Order
Kappa Delta Dance Team
Kmart

Lion's Share
Leitzinger Imports
National Agri-Marketing Association
Penn State Army, Air Force and Navy ROTC units

Penn State Baseball Team
Penn State Blue Band
Penn State Circle K Club
Penn State Equestrian Team
Penn State Ice Hockey Team
Penn State Men's Lacrosse Team
Penn State Rowing Club
Penn State Women's Rugby Team
Penn State Women's Soccer Team
Pennsylvania Military Museum
Phi Kappa Psi fraternity
Sam's Club on Benner Pike
Sigma Alpha Epsilon fraternity
Sigma Delta Tau Sorority
Sproul ninth floor residents
State College Area School District
State College-Christians & Missionary Alliance Church
State College Track Booster Club
The Second Mile
Trieta Delta Chi fraternity
Unity Church of Jesus Christ
Wal-Mart on Benner Pike



Chuck Wendler was busy Friday in a parking lot off Curtin Road.

Photo: Annemarie Mountz

The ARTS

AT PENN STATE

"A Christmas Carol"

This year's performance of Charles Dickens' "A Christmas Carol" by **Tony Lentz** will offer something new to the State College community — the chance to hear it at home.

For the 16th year, Dr. Lentz will present a live two-hour and 20-minute performance of the classic tale at 8 p.m. Friday and Saturday, Dec. 1 and 2, in 101 Kern Building. The performance is free and refreshments will be provided.

In addition, WPSU radio will broadcast a two-hour version of the story at 10 a.m. Sunday, Dec. 17, and 7 p.m. Sunday, Dec. 24. The broadcast was recorded last summer with director **Sandra Thomas**.

The performance has been a tradition at Penn State since Dr. Lentz arrived in 1980. Every year at about this time, ghosts and Christmas spirits begin appearing in late-night classrooms as he rehearses for the free performance.

Opera Theatre to perform

The Penn State Opera Theatre and the Penn State Philharmonic Orchestra will present *Opera Intermezzo*, an evening of scenes from well-known operas and operettas, at 8 p.m. Friday, Dec. 1, and Saturday, Dec. 2, in the School of Music Recital Hall on the University Park Campus.

Opera Intermezzo is directed by **Susan Boardman**, associate professor of voice, with assistant directors **Sara Hopkins** and **Dana Louder**. The Penn State Philharmonic is conducted by **Fu-Qi Jiang**, associate professor of music. The music director is **John Ulrich** and the dance choreographer is **Nikol Peternan**.

Tickets for the performance are \$4 and may be purchased in advance from the School of Music office or at the door the night of the performance. For more information, please call Ms. Boardman at (814) 863-0696 or the School of Music at (814) 865-0431.

World AIDS Day on WPSU

Tune-in to WPSU FM Purple Rabbit Program for a World AIDS Day performance. Voices from the world over will perform readings, "Shared Rights, Shared Responsibilities" for World AIDS Day, at 9 p.m., Friday, Dec. 1. The program is sponsored by Cross Cultural Health Program, WPSU FM and Penn State.

Architectural watercolors

An exhibition of art works by **Amey Forsyth**, assistant professor of architecture, titled "An Architectural Per-

spective on Three Destinations" will be on display Dec. 1 through Dec. 31 in Pattee Library's West Lobby Gallery.

Ms. Forsyth's watercolor paintings represent local images of Bellefonte and State College as well as views of Chautauque, N.Y., and Italy. She says that her watercolors are "momentary singular visions that attempt to capture the spirit of each place — to act as a vehicle by which someone else may view the same place through the eyes of the renderer."

Children's program at McKeesport

Penn State McKeesport Campus students will present "Readers Among the Trees" for three performances through Dec. 2 at 7:30 p.m. in the Buck Union Building.

The program is geared to children and features the poetry of Langston Hughes and stories from various cultures including a trilogy based on trees as the theme.

The presentation is a collaboration of Actor's Annex students under the direction of **Russell Ciolli**, instructor of speech communication, and Storytime Theatre students under the direction of **Jay Breckenridge**, associate professor of theatre arts.

Admission is \$1 for children and \$2 for adults.

Winterfest: A Choral Celebration

The College of Arts and Architecture School of Music will present this annual performance of "Winterfest: A Choral Celebration" at 4 p.m. Sunday, Dec. 3, in Eisenhower Auditorium on the University Park Campus.

"Winterfest" will bring together more than 350 undergraduate and graduate musicians in seven ensembles. The celebration will begin with holiday favorites performed by the Oriana Singers, conducted by **Lynn Drafali**; the Concert Choir, conducted by **D. Douglas Miller**; the Glee Club, conducted by **Bruce Trinkle**; the Women's Chorale, conducted by **Paul McPhail**; and the University Choir, conducted by **Anthony Leach**.

The University Brass, conducted by **Mark Lusk**, will provide incidental music from the balconies.

Ticket prices are \$7 for non-students; \$3 for students. For ticket information, contact the Arts Ticket Center, open Monday through Saturday, 8:30 a.m. to 4:30 p.m. at (814) 863-0255. Outside the local calling area, phone (800)ARTS-TIX.



No humbug here

Tony Lentz will present Charles Dickens' "A Christmas Carol" at 8 p.m. Friday and Saturday, Dec. 1 and 2, in 101 Kern Building on the University Park Campus. The performance will also be aired on radio for the first time.

Singing Lions to perform

The Singing Lions will present their annual fall and Christmas show, "A Holiday Sing!," at 7:30 p.m. Sunday, Dec. 3, in the Recital Hall of the College of Arts and Architecture School of Music Building on the University Park Campus.

This year's production will include a jazz medley, blues songs, flag-waving patriotic numbers and music for "the most wonderful time of the year."

The Singing Lions consist of 16 selected singers, an accompaniment group and their technical support crew. The cast is made up of students from many disciplines at the University Park Campus.

Tickets for the show are \$4 general admission; \$3 for students/senior citizens, and will be available at the door the night of the concert.

Festival of Trees

The Centennial Festival of Trees is scheduled to run from 11 a.m. to 7 p.m. daily, through Wednesday, Dec. 6, in the Agricultural Arena on the University Park Campus.

With the help of hundreds of volunteers, the Penn State Forestry Service, the Horticulture Club, more than 100 trees will be exhibited. Many of the trees will be decorated by community groups, churches will provide periodic caroling and local musicians will stroll and play their instruments. A petting zoo is planned for the second week of the event and there will be a display of area crafts people and artists in the Grange mezzanine. Herbs and dried flowers, centennial items and Christmas ornaments will be available for sale, along with trees, wreaths and poinsettias.

The festival is open to the public.

Odyssey on WPSU

In the Dec. 6 episode of *Odyssey Through Literature*, writer **Na Friedman** shares with host **S. Leonard Rubinstein** the stories she has collected of children's experiences of the Holocaust.

Ms. Friedman's books attempt to

create a balance for children between courage and hope and "the knowledge that there is evil in the world." "American children do not know these stories," she said, "and they should be told."

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Wednesdays at 8 p.m. on WPSU, 91.5 FM.

Bach's Lunch

The Penn State Flute Ensemble, directed by **Eleanor Duncan Armstrong**, associate professor of music, will perform at the Bach's Lunch concert series at 12:10 p.m. Thursday, Dec. 7, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The 20-minute free concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and University Lutheran Parish.

The Flute Ensemble consists of 16 members, most of whom are flute majors in the School of Music. The ensemble will perform on all instruments in the flute family, the C flute, the piccolo, and the alto and bass flutes. The Flute Ensemble also will play traditional and contemporary settings of Christmas favorites.

The audience is invited to take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided.

Student art exhibited

Penn State student drawings titled "Joe Camel a la Fernando Botero" are on display in downtown State College at Beekman's Bagel Deli, 310 E. College Ave., and at Tobacco Tavern, 256 E. Calder Way, through Friday, Dec. 8.

The exhibition features drawings by students enrolled in the Architecture 121 visual communication course taught by **Richard Alden**, assistant professor of architecture.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, November 30

Centennial Festival of Trees, 11 a.m.-7 p.m., Agricultural Area. Through Dec. 6.
Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Penn State Trombone Choir.

■ Gallery Talk, 1:30 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "African Headrests."

Lecture, 3:30 p.m., Palmer Lipson Auditorium. David Teplica, photographer and Bryan Shuler, ethnomusicologist, will discuss their work on display.

Gay, Lesbian, Bisexual Lecture Series, 7 p.m., Palmer Lipson Auditorium. Jonathan Silin, author, on "The Pervent in the Classroom."

Friday, December 1

■ Gallery Talk, 2 p.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "African Art at the Palmer Museum."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "The Nutcracker" by the Moscow Classical Ballet. Also, Dec. 2, 3 p.m. For tickets call 863-9255.

Annual reading of Charles Dickens' "A Christmas Carol" by Tony Lentz, 8 p.m., 101 Kern. Also Dec. 2.

School of Music, 8 p.m., Recital Hall. Penn State Opera Theatre and Penn State Philharmonic Orchestra. Also, Dec. 2. For tickets, call (814) 863-0696.

■ Cross Cultural Health Program, 9 p.m., WPSU FM. "Voices from the World Over" will present readings for World AIDS Day. Shared Rights, Shared Responsibilities.

Saturday, December 2

■ Gallery Talk, 1 p.m., Christoffers Lobby. Kay Pecht on "Asian Art at the Palmer Museum."
■ Gallery Talk, 2:30 p.m., Christoffers Lobby. Teng-Pin Wang on "An Introduction to Sleeping Beauties."

Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. James Stewart on "The Dilemma of Updating Myrdal's American Dilemma."

School of Music, 8 p.m., Recital Hall. Opera Scenes.

Sunday, December 3

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Cheryl Snay on "Looking at You: Portraits at the Palmer Museum."

■ Film, 2 p.m., Palmer Lipson Auditorium. Witchcraft Among the Azande.

School of Music, 4 p.m., Eisenhower Auditorium. Winterfest: School of Music Choral Ensemble.

The Singing Lions Christmas Show, 7:30 p.m., Recital Hall. Tickets sold at the door.

Monday, December 4

Catholic Faculty and Staff Fellowship Group, noon, 212 Eisenhower Chapel. Tom Palchak on "The Importance of Food in the Scriptures." Bring your lunch.

Comparative Literature Lunch Program, 12:15 p.m., 101 Kern. Richard Kopley on "Poe's 'Tall-Tale' Ham in Hawthorne's 'Scarlett Letter'."

Division of Undergraduate Studies Brown Bag Advising Lunch, noon, 305 HUB. Joyce Buck, Terry Musser, and Stan Supon on "Listening Skills for Academic Advisers."

School of Music, 7:30 p.m., Recital Hall. Penn State Philharmonic Students Competition.

Tuesday, December 5

University Faculty Senate will meet, 1:30 p.m., 112 Kern.

Wednesday, December 6

Gallery Talk, 2:30 p.m., Christoffers Lobby, Palmer Museum. Elfram Burk on "Photographs from the Permanent Collection."

Entomology "Catch the Bug," 7 p.m., 101 ASI. "Does Rodeo (the reindeer) Suffer from Lyme Disease?" Learn the facts of Lyme



On display

The photography of Katarin Parizek will be shown in the Kern Exhibition Area through Dec. 12.

Disease and how to protect yourself. Multicultural Winter Festival, 8 p.m., Nittany Lion Inn. Also Dec. 9. For tickets, call (814) 863-7840.

HUB "Distinctive Styles" Concert, 8 p.m., HUB Fishbowl. Andrew Robin and The Pocono Mountain Men, bluegrass and folk using banjo, haw harp, guitar, fiddle, mandolin and hammered dulcimer.
School of Music, 8 p.m., Recital Hall. Jazz II & III.

Thursday, December 7

Sigma Xi, noon, 305 HUB. James Frazier on "To Eat or Not to Eat: The Bitter Sweet Choice of Insects."
Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Penn State Flute Ensemble.

Penn State Symphonic Band, 7:30 p.m., HUB Ballroom.

Friday, December 8

■ Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Sissel Schroeder on "Ancient Landscapes and Socio-Political Evolution Near Cahokia."

School of Music, 8 p.m., Recital Hall. Student Composers' Concert.

Saturday, December 9

Shaver's Creek, 9 a.m. Wreath-Making Workshops. Also at 1 p.m. Call (814) 863-2000.

Continuing and Distance Education, 7 p.m., Penn State Scanlon. Greg Ziegler on "A Night of Chocolate: The Industry, the Culture, and the Experience." For tickets, call (800) PSU-TODAY.

Multicultural Winter Festival, 8 p.m., Nittany Lion Inn. For tickets, call (814) 863-7840. No tickets will be sold at the door.

Sunday, December 10

Shaver's Creek, 1 p.m. Beyond Wreaths: Swags, Sprays, & Centerpieces. Call (814) 863-2000.

SEMINARS

Thursday, November 30

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 David Lab. Jerzy Lewandowski on "Smooth Loops, Webs and

Tassels." Computer Science and Engineering, 4 p.m., 302 Pond Lab. Mark Klein on "Coordination Technology: Challenges and Directions."

Friday, December 1

Materials Research, 11 a.m., 250 MRL. F.P. Glasser on "Cement in Radioactive and Hazardous Waste Management."

Liberal Arts, 3 p.m., Assembly Room, Nittany Lion Inn. Alan Walker on "New Discoveries Relating to Human Origins."

Agronomy, 3:35 p.m., 101 ASI. Sloane Smith on "Evaluation of Soil Tests for Estimating Plant Availability of Trace Elements and Heavy Metals in Pennsylvania Soils."

Philosophy, 4 p.m., 124 Sparks. Jeffrey Nelson on "Foucault and the Future of Philosophy."

Monday, December 4

Center for Gravitational Physics and Geometry, 3:30 p.m., 115 Omond Lab. Eanna Flanagan, speaker.

■ Australia-New Zealand Studies Center, 3:30 p.m., 201 Rackley Bldg. David R. Jones on "The Post-Modern University in the South Pacific."

Tuesday, December 5

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Daniel J. Joseph and Russell J. Penrose on "Utilized Transport of Viscous Materials."

Institute for Policy Research and Evaluation, 3 p.m., 12 Sparks Bldg. David Ribar on "Economic Determinants of Abortion and Birth Rates."

Physics, 3:30 p.m., 210 David Lab. Xiao-Gang Wen on "Topological Orders and Edge States in Fractional Quantum Hall Liquids."

Biology, 4 p.m., 8 Mueller Lab. Mary Tierney on "Molecular Analysis of the Structure and Function of Plant Extracellular Matrix."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. E.G. Colman Jr. on "Applications of Planar Matching to Engineering Problems."

Food Science, 4 p.m., 201 Borland Lab. Laura DeMars on "Texture and Structure of

Gelatin/Pacfin Based Gummy Confections."

Wednesday, December 6

Gerontology Center, noon, 101 H&H Bldg. East. Sherry Wilks on "Assessing Errors in Everyday Tasks Made by Older Adults."

History, 4 p.m., 102 Weaver Bldg. Leslie Patrick on "Little (Known) Women at the Eastern State Penitentiary: 1831-1913."

Thursday, December 7

Ceramic Science, 11 a.m., 301 Steidts Bldg. Carl Friedhoff on "The Role of Ceramic Thin Films in a Novel."

Physics, 3:30 p.m., 101 Omond Lab. Gordon Fleming on "Compelling Approaches to Quantum Theory."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Moody Chu on "Continuous Realization Methods and Their Applications."

Psychology, 4 p.m., Colonial Room, Nittany Lion Inn. Edward Smith on "The Architecture of Working Memory as Revealed by PET."

Friday, December 8

Agronomy, 3:35 p.m., 101 ASI. Andrea Anne Couillard on "Evaluation of Turf Soil Profiles with Near Infrared Reflectance Spectroscopy."

CONFERENCES

Thursday, November 30

Children of Crises, Violence, and Loss, The Penn State Scanlon.

NUCCA Winter Retreat, The Penn State Scanlon. Through Dec. 2.

Friday, December 1

Science, Technology and Islamic Values, The Penn State Scanlon. Through Dec. 3. For information, call (814) 863-0066.

Children and Divorce: Legal, Social, and Psychological Issues, The Penn State Scanlon. Through Dec. 2.

Monday, December 4

Moving Transportation Forward, The Penn State Scanlon. Through Dec. 6. For more information, call (814) 863-1738.

Tax Week, Nittany Lion Inn. Through Dec. 8.

Friday, December 8

Revising the Self: Saving the Selves of Adolescent Girls, The Penn State Scanlon. Presented by Mary Pieper, author. Lecture, Dec. 8, 8 p.m. and full-day workshop Dec. 9. For information, call (800) PSU-TODAY.

EXHIBITS

HUB

Art Alley Cases:

Janice Ganser will display her figurat art, such as permanent chocolateware which she invented. Through Dec. 10.

Sam Chair, artist and wood burner. Portraits, still life, and architectural scenes on wood-carved canvases on display through Dec. 10.

Art Alley Panels: "This Is Our Yard," an AIDS awareness project, through Dec. 10.

Browsing Gallery:

Quits by Fran MacSchreien, through Dec. 10.

Formal Art Gallery:

Works by Dorothy Hoff. Watercolors of Alaska and the Aleutian Islands. Through Dec. 9.

Palmer Museum

■ "Sleeping Beauties: African Headrests from the Jerome L. Joss Collection at Zoller Gallery."

"School of Visual Arts Faculty Exhibition," through Dec. 5.

"Master of Fine Arts Thesis Exhibition," Dec. 9 through Dec. 15.

■ Reflects an international perspective

Transportation Institute aims to improve safety

Vehicle guidance system makes high-speed crash tests possible

A successful vehicle crash might sound like a contradiction to most people, but to researchers at the Pennsylvania Transportation Institute's Crash Safety Research Center, a successful crash is exactly what they want.

Recently, center researchers got what they were looking for when a four-door Volkswagen reached 60 mph and crashed head-on into a wooden sign post. The crash occurred during a full-scale test of a vehicle guidance system that the center's co-director Robert Wollyung designed.

"One of the factors you have to deal with in vehicle crash testing is that you can't have a driver behind the wheel," said Mr. Wollyung, who earned his master's degree in Penn State's mechanical engineering program in May 1994. "Your main concerns are getting the vehicle to speed and delivering it to within plus or minus three, or fewer, inches of the point of contact without a driver inside the car."

Mr. Wollyung said the test was successful because the guidance system was able to "drive" the car directly into the post at 60 mph. Although he and his fellow researchers originally tried a variety of complex designs for the guidance system, he says they finally decided on what he calls a "relatively simple" system involving a rail that Conrail donated to the center.

"We devised a rail guidance system in which aluminum bogeys that look like big shoes with wheels on the bottom are attached to one side of the vehicle," he said. "The bogeys are then connected to the metal rail so that the high-speed wheels can track along the rail and guide the vehicle to a target. After the bogeys are in place, we control the speed of the vehicle by using a series of pulleys and cables connected to a tow vehicle."

Now that the rail guidance system has passed the 60 mph test (the system also was successfully tested at 30 mph), Brian J. Gilmore, an associate professor of mechanical engineering



The Pennsylvania Transportation Institute Crash Safety Research Center was recently able to successfully "drive" a four-door Volkswagen into a 60-mph, head-on crash with a wooden sign post using its new vehicle guidance system. Now that the system is up and running, researchers at the institute can use it to help them study ways to improve vehicle safety.

"We view crash testing as a problem involving the dynamic interaction between a vehicle and a guardrail, roadside barrier or other structure. We want to develop design techniques to safely redirect vehicles with minimal crash and acceleration levels."

Robert Wollyung, co-director
Pennsylvania Transportation Institute
Crash Safety Research Center

at the institute and codirector of the center with Mr. Wollyung, said the center is in a position to begin actual crash testing.

"The whole idea behind the center is to conduct research into areas of vehicle safety," Dr. Gilmore said. "We're interested in vehicle interaction with roadside barriers, lamp posts, and signs, as well as in federal safety standard testing of motor vehicles for crashworthiness and passenger safety."

Currently, the center, established in January 1995, is working on two funded projects. One of the projects

involves safety testing a van model that a Pennsylvania company has modified from two-wheel drive into four-wheel drive. The center will analyze the company's redesigned suspension, transmission and fuel tank, and then use computer simulation in conjunction with full-scale crash testing to verify that the modifications are safe in a crash situation. The center's second project deals with highway structure safety, specifically the design of timber barriers for bridges.

"We're helping a company design a timber barrier that will redirect a

vehicle in a safe manner upon impact," Mr. Wollyung said.

"We're not only concerned about keeping the barrier from breaking and making sure that the vehicle doesn't fly off of a bridge or into an abutment, we also want the vehicle to be redirected into the traffic flow or into a safe area without flipping over or causing too much acceleration or forces on the driver and occupants."

Optimizing the performance of vehicles and highway structures such as signs, poles and barriers is a concern that Dr. Gilmore said makes Penn State's crash safety center different from similar centers throughout the nation.

"Most university-based crash test facilities view crash testing as primarily a structural problem," he said. "We view crash testing as a problem involving the dynamic interaction between a vehicle and a guardrail, roadside barrier or other structure. We want to develop design techniques to safely redirect vehicles with minimal crash and acceleration levels."

In addition to full-scale crash testing, the center will concentrate on component-level testing using computer simulation and laboratory tests in facilities throughout the University. Center researchers also plan to conduct studies on occupant safety and lower-extremity injuries.

"The major thing people worried about 10 or 20 years ago was saving lives," Mr. Wollyung said. "Now that lives are saved with the help of seat belts, air bags and other devices, vehicle manufacturers and safety experts are taking a closer look at injuries."

"Our center will focus on both of these aspects — reducing the risk of fatalities and reducing, or even preventing, injuries that occur during vehicle accidents."

—Janice M. Ferguson

Awards

Continuing and Distance Education feted

Continuing and Distance Education staff members and programs were honored during the National Continuing Education Association (NUCEA) Region II annual conference held at The Penn State Scanlon.

Winners of 1995 awards are:

■ **John C. Marshall**, director of field services for C&DE, received the Floyd B. Fischer Leadership Award for the leadership he has provided to 23 C&DE locations throughout Pennsylvania, "his innovative ideas and exceptional programming ability" and superior leadership and service to NUCEA. As a member of NUCEA, he has served on the conference planning and site selection committees, and in 1989, he was the site coordinator for NUCEA's national conference.

Mr. Marshall has been involved in continuing education planning, programming, budgeting, marketing and program development for almost 30 years. He was an area representative at the Penn State Beaver Campus and director of continuing education at the Penn State York Campus before being

named director of field services in 1986.

■ **Diversity Issues in the Classroom** — Volume 1: Penn State Educational Equity Series won an Award of Excellence for faculty and staff development.

The videotape series is designed to stimulate discussion and debate and heighten awareness about the effect of prejudice, stereotypes and other multicultural issues on classroom climate and instruction.

Educational Communications/WFSX-TV/WFSU-FM produced the first volume in the series for the Office of the Vice Provost for Educational Equity. **Frank Wilson** was the executive producer, and **Chuck Ungar** was the producer/director. The project was conceived by **Marc B. Levey**, senior diversity planning analyst in the office of the vice provost, who served as the project director.

■ **The Wawa Retail Management Certificate Program** earned an Award of Excellence for credit program development.

The Department of Distance Education used an open learning model to design an educational program that

meets the needs of Wawa Inc. managers and assistant managers. Wawa is a convenience store chain with locations in five states. Courses for the 18-credit certificate program are delivered via distance education. Each course includes five face-to-face seminars.

The Mary Jean and Frank P. Smeal College of Business Administration approved the curriculum for this multi-level program and oversees academic content and instruction. Program developers are **Peter K. Foster**, assistant director of distance education and project manager for the Wawa program; **Waverly Coleman**, director of continuing education, the Penn State Delaware County Campus; and **Michael Woerner**, Wawa Inc. representative.

■ **Eating Disorders on Campus:** The Institutional Response received an Award of Excellence for noncredit program development.

The conference examined how colleges and universities respond to students with eating disorders. Those involved in developing the program include **Stephanie Tyworth**, coordinator of special programs, and **Suzanne**

Wrye, director, both with Health Care Program Development; **Suzanne St. Pierre**, conference planner, Conferences and Institutes; **Claudia K. Probst**, assistant professor of nutrition, College of Health and Human Development, and conference chairperson; **Robert Snyder**, account specialist, Office of Marketing Communications; and **Kenneth Kerr**, former associate research project manager, Office of Marketing Research.

■ **The Client Management System** won an Award of Excellence for administrative support services.

The Client Management System is a database of information about clients, projects and outreach activities provided by C&DE administrators and staff members. The database was created in January 1994 with assistance from C&DE's Office of Information Systems. About 50 C&DE administrators and staff members use the system to track more than 1,000 client and prospect records.

Database developers are **Janet L. Winemiller**, manager of client development, and **Thomas O. Mincemeyer**, manager, Office of Information Systems.

Professor earns environmental research award

Jan Marc Bollag, professor of soil microbiology and co-director of the Center for Bioremediation and Detoxification, has received the Environmental Quality Research Award of the American Society of Agronomy (ASA).

According to ASA, the award is intended to recognize research contributions which have enhanced the basic understanding of environmental sciences in relation to agriculture, or demonstrated sound and effective management practices for maintaining or improving the quality of soil, water and air resources.

Dr. Bollag is internationally known for his research on the role of microorganisms in the environment and the potential use of these microbes for pollution control or bioremediation. He has



Jean Marc Bollag

Microbiology and the Soil Science Society of America.

isolated various microbial enzymes which can cause pollutants to become trapped or bound in humus.

More recently, he has directed his attention to research on the use of plant materials for detoxification. His work on the use of raw, minced horseradish to clean up wastewater or soil contaminated by chlorinated phenols or anilines has been widely covered in the mass media.

He has also been honored with the Gamma Sigma Delta Research Award in 1982 and the Badge of Merit from the Polish Ministry of Agriculture in 1977. He is a Fellow of the American Society of Agronomy, the American Academy of Agronomy, the American Society of Agronomy, and the Soil Science Society of America.

Harrisburg Alumni Society honors two

Harrisburg area residents **Irene C. Baird** and **LaVerna J. Fountain** have received Penn State Harrisburg Alumni Society awards.

Dr. Baird, director of the Women's Enrichment Center, received the 1995 Alumni Achievement Award, and LaVerna J. Fountain, the executive director of the Pennsylvania Campus Compact, was presented the People to Watch Award.

Dr. Baird, a Camp Hill resident, was honored for her tireless commitment to the community, especially as director of the Enrichment Center at the Penn State Harrisburg Eastgate Center.

Dr. Baird has been a volunteer with

many Harrisburg area groups and agencies including the Greater Harrisburg YWCA, National Network for Women's Employment, Harrisburg School District, Susquehanna Art Museum, American 2000-Harrisburg Task Force, PSE Small Business Development Center, Statewide Women's Leadership Conference and Job Link.

She earned her doctorate in 1994 and is also a Penn State Harrisburg affiliate assistant professor of education.

Ms. Fountain, who earned a bachelor's degree in public policy from Penn State Harrisburg in 1983, has long been active in the community and

in the past earned the Leader of the Year Award from Leadership Harrisburg.

As executive director of the Pennsylvania Campus Compact, she oversees an effort through which colleges and universities encourage community service among students. She is also the leader of Teach Teens to Teach Teens Nonviolence Institute and the Discover the Leader Within You, a 4-H program. She was the first African American and first woman to serve as press secretary for the Commerce Department and state police. She also served as director of Sen. Harris Wofford's Harrisburg office.

Assistant professor granted NIH award

John P. Kirwan, assistant professor of exercise and sport science in the College of Health and Human Development, has received the First Independent Research Support and Transition Award from the National Institutes of Health.

The five-year First Award provides support for new scientists who show promise of significant and innovative contributions to biomedical research. The award allows scientists to develop their research capabilities and demonstrate the merit of their research ideas.

Dr. Kirwan will use the award to study the effects of exercise training and dietary restriction on diabetic elderly who are moderately overweight. He and other researchers have found that endurance exercise training can significantly improve insulin action in older men and women.

Dr. Kirwan's study is designed to contribute to understanding the mechanism by which changes in lifestyle factors can improve the body's metabolic control. His research could lead to specific exercise and dietary recommendations to improve the quality of life for moderately overweight older adults.



LECTURES

Anthropology professor to discuss human origins

The 1995-1996 Dean's Lecture Series sponsored by the College of the Liberal Arts will feature **Alan Walker**. Dr. Walker is professor of anthropology and biology and his topic will be "New Discoveries Relating to Human Origins."

Dr. Walker was born and educated in England, with a degree in geology and biology from Cambridge University and a Ph.D. in anatomy and paleontology from London University. His research involves both field and laboratory work and he has collaborated with Richard Leakey since 1969 work-

ing around Lake Turkana in northern Kenya. He is the discoverer of many important fossils including a famous *australopithecine* ("The Black Skull") and worked with Dr. Leakey in the excavation of the most complete early hominid skeleton ever found at the site of the Nariokotome on the western shore of Lake Turkana.

The lecture is at 3 p.m. Friday, Dec. 1, in the Nittany Lion Inn Assembly Room on the University Park Campus. A reception will follow immediately in the Alumni Lobby. The lecture is free to the public.

International colloquium set

David R. Jones, visiting Fellow at the Australia-New Zealand Studies Center, will conduct an international education colloquium on "The Post-Modern University in the South Pacific" at 3:30 p.m. Monday, Dec. 4, in 201 Rackley Building on the University Park Campus.

Dr. Jones, a historian of universities, spent the 1970s in the Higher Education Research Group at Yale. Since then he has lived, studied and taught in Australia, New Zealand and the island states of the South Pacific. His talk will

focus on the manner in which "Western" higher education is evolving to include forms of knowledge and ways of knowing indigenous to the South Pacific.

This colloquium, co-sponsored by the Comparative and International Education Committee, is the latest in a series organized by the Australia-New Zealand Studies Center and is free to the public. For additional information about this or upcoming events, please contact **Patricia Corbett** at (814) 863-1603 or E-mail pac9@psu.edu.

Memory systems topic of Dec. 7 lecture

Professor **Edward Smith** of the University of Michigan psychology department will present a lecture, "The Architecture of Working Memory as Revealed by PET," at 4 p.m. Thursday, Dec. 7, in the Colonial Room of the Nittany Lion Inn on the University Park Campus.

Dr. Smith will describe recent experiments on verbal and spatial memory. Using behavioral and brain-scanning techniques, he and his colleagues have discovered which brain areas underlie these two memory systems. Dr. Smith is

a former editor of *Cognitive Science*, current director of the Cognitive Science and Cognitive Neuroscience Program at the University of Michigan, and a member of the American Academy of Arts and Sciences.

This talk is the second of four in a Distinguished Cognitive Speakers Series held this academic year. The series is made possible through a grant from the Research and Graduate Studies Office of the College of the Liberal Arts.

Seminar on radioactive waste Dec. 1

As part of the Materials Colloquium '94 Seminar Series, **F.P. Glasser**, professor of chemistry at the University of Aberdeen, Scotland, will give a seminar titled "Cement in Radioactive and Hazardous Waste Management" at 11 a.m. Friday, Dec. 1, in room 250 MRL on the University Park Campus. Refreshments will be served at 10:45 a.m.

Dr. Glasser is chair of the Chemistry Department at the University of Aberdeen, Scotland. He is a Fellow of both the Institute of Metals of the Mineralogical Society of America and the

Institute of Ceramics of the American Ceramic Society, and an honorary Fellow of the Institute of Concrete Technology. His research interests include radioactive waste immobilization, special ceramics, oxides with novel electrical properties, ceramic colorants, chemically bonded ceramics, concrete durability, corrosion in concrete, geopolymer synthesis, safe disposal of toxic waste materials, development of physically dense cement pastes and durability of materials, especially composites.

Private Giving

Former athlete earmarks \$50,000 gift to Hall of Fame

Former Penn State football player **Dr. James P. Bradley** has pledged \$50,000 to Penn State's All-Sports Hall of Fame.

Dr. Bradley is among a group of four former football players heading a committee to generate financial support for the Hall of Fame from other football players.

Gifts and pledges to date total \$1.5 million; nearly half of the total is from former student-athletes other than football players.

A 1975 graduate of the Eberly College of Science, Dr. Bradley earned his medical degree from Georgetown University in 1982.

He is an orthopedic surgeon at the University of Pittsburgh.

The Hall of Fame, which will be constructed without using any public revenues, University funds or tuition money, will showcase the achievements of the University's student-athletes both on and off the field. Each varsity sport will have an area for displays, awards and memorabilia. The Hall will be constructed between The Bryce Jordan Center and Beaver Stadium and is expected to cost \$5 million.

Obituaries

Jeanne R. Cook, nutrition aide supervisor, College of Agricultural Sciences, from Jan. 8, 1973, until her retirement May 1, 1986; died Oct. 14 at the age of 80.

Richard M. Ellenberger, administrative assistant, College of Engineering, from Sept. 9, 1957, until his retirement Jan. 1, 1985; died Oct. 12. He was 71.

Samuel K. Hoffman, a former professor of aeronautical engineering and an engineer who directed development of liquid-fuel rocket engines that launched the nation's Apollo spacecraft, died June 26. He was 93.

Dr. Hoffman, who was a professor in the area now known as aerospace engineering from 1945-49, left the University to join North American Aviation, where he was general manager. He later became president of a new division — which he named Rocketdyne — now a division of Rockwell International Corp. He retired in 1970.

During his tenure at Rocketdyne, Dr. Hoffman oversaw the development of the Redstone propulsion system used in the 1958 launch of Explorer 1, the first American satellite. He also directed the development of the F-1 rocket engine and a cluster of five F-1 engines powered the first stage of the Saturn V rockets used in the Apollo program.

Dr. Hoffman received degrees in mechanical engineering from Penn State in 1925 and 1945. He is

survived by his wife, **Genevieve Wieland**, of State College.

Herbert E. Johnson, residence hall preventive maintenance worker, Housing and Food Services, from Feb. 21, 1974, until his retirement May 5, 1993; died Sept. 3. He was 63.

Harold B. Long, groundskeeper, golf course, from March 1, 1955, until his retirement Sept. 1, 1976; died Oct. 20 at the age of 84.

Alfred M. McCarty, residence hall worker, Housing and Food Services, from April 7, 1955, until his retirement May 1, 1969; died Sept. 4 at the age of 91.

Catherine L. McKenzie, staff assistant V, Eberly College of Science, from June 14, 1983, until her retirement June 29, 1993; died Oct. 7. She was 62.

John O. Pepper, professor of entomology extension, College of Agricultural Sciences, from March 5, 1928, until his retirement July 1, 1964; died Oct. 7 at the age of 93.

Melvin A. Reighard, janitorial worker, Office of Physical Plant, from July 5, 1979. He died Oct. 20 at the age of 53.

Bonnaly N. Shaw, food service worker, Housing and Food Services, died Oct. 7 at the age of 72. She worked at the University from March 12, 1974, until her retirement Jan. 1, 1986.

Appointments

Pennsylvania College of Technology names dean of student services

James Emmett Fitzpatrick has been named dean of student services at Pennsylvania College of Technology. In his role as dean, he will oversee services pertaining to students and student life, including admissions, student records, academic support services, financial aid, counseling and career services, college activities and the college police department.

A native of Pittsburgh, Dr. Fitzpatrick has served in higher education for 18 years. He comes to Penn College from Drexel University in Philadelphia, where he was dean of students. He also has held positions as assistant dean of students, at Robert Morris College in Pittsburgh; director of student development at Gannon University in Erie; and assistant dean of students at Duquesne University in Pittsburgh.

He holds a doctorate of education degree from the University of Pittsburgh, and a master's degree in sociology in education and a bachelor of arts degree in sociology, both from Duquesne University.



James E. Fitzpatrick

Vice president for Development and Alumni Relations named

Rodney P. Kirsch, senior vice president for development at the Indiana University Foundation, has been named vice president for Development and Alumni Relations, effective Feb. 15.

His appointment was approved by the Board of Trustees, upon recommendation by President Graham B. Spanier.

As vice president for development and alumni relations at Penn State, Mr. Kirsch will report to the president and is responsible for planning, coordinating, and directing the fund-raising and alumni programs for the University. He will coordinate with academic and administrative units in developing a complete approach to the continuing development of private support for the University. In fiscal 1994-95, Penn State raised \$82.8 million.

Mr. Kirsch has a bachelor's degree from the University of North Dakota, where he graduated Phi Beta Kappa and summa cum laude. He received his master's degree from Indiana University. Before joining the Indiana University Foundation, he was at the University of California at Berkeley, where, among other development positions, he was executive director of its \$320 million capital campaign. At Indiana, he supervises approximately 75 staff members serving a multi-campus system. This past fiscal year, Indiana University received \$109 million in total voluntary support.

A committee of 14 faculty, staff, students and alumni was appointed in July to conduct a national search to fill the position. **Carol Hermann**, senior vice president for administration, chaired the committee which reviewed approximately 100 candidates.

Document Services director joins Office of Business Services

Michael Pierick, former director of printing services at the University of Wisconsin in Madison, has been appointed director of Document Services in the Office of Business Services.

In his new position, Mr. Pierick will direct the newly created Document Services department, organized to ensure cohesiveness and interdevelopment among Printing, Copy Centers, and Addressing and Mailing. He will oversee the management of all operational activities in those areas; coordinate and approve strategic and technological planning for all document services; engage in budget formulation and administration for that department; and provide direction and support for the unit's continuous quality improvement processes.

Additionally, Mr. Pierick will be reorganizing Document Services to create what he calls "one-stop document shopping" for the University, merging customer services and billing staff from within Printing, Copy Centers, and Addressing and Mailing.

Mr. Pierick was director of UW-Madison printing services, a position he began in 1987, previously serving that department as coordinator of editorial and production services and then as assistant director. From 1994 to his departure, he held a concurrent position as manager of printing technologies in the Division of Information Technology.

Other positions he held at the University of Wisconsin include publications distribution manager at On-Campus Services, editor in the College of Engineering, and editor and assistant designer with University Publications.

In 1994 and 1995, Mr. Pierick represented the University of Wisconsin in Madison and the University of Wisconsin System on the state's ad hoc Information Presentation Strategy Task force, charged with reviewing and revamping information output strategies and operations for all state agencies, including the University of Wisconsin.

This year, he was chair of the Printing and Copying Reorganization Committee at UW-Madison, the committee directed to reconstruct the campus printing and copying operations.

Worthington Scranton Campus welcomes career counselor

Joelle Sherlock has been appointed career development and placement counselor at the Penn State Worthington Scranton Campus. She is responsible for providing career planning services, personal and educational counseling and job search strategy information to students and alumni.

Ms. Sherlock received a master's degree in counseling and a bachelor of arts degree in English from the University of Scranton. She was a 1985 graduate of Scranton Preparatory School.



Michael Pierick

Before her appointment at Penn State, she served as director of career services at Lackawanna Junior College. She has also held positions including primary therapist at Lourdesmont Good Shepherd Youth & Family Services, graduate assistant in the Academic Development Program at the University of Scranton, Learning Assistance Center — counselor, and freshman testing and counseling and Advising Program counselor at the Worthington Scranton Campus.

Ms. Sherlock is a member of the Pennsylvania School Counselors' Association, Northeastern Pennsylvania Counseling Association, Scranton Area Personnel Association and Inter-Collegiate Counselors.



Joelle Sherlock

Health and Human Development alumni affairs gets new coordinator

June Stine has been named coordinator of alumni affairs in the College of Health and Human Development. In this position she will oversee all aspects of the college's alumni relations program and will serve as a member of the college's advancement team, which also includes staff in communications and development.

Ms. Stine brings a background in administering nonprofit organizations, working with their volunteers, and increasing their support through media relations and heightened public awareness.

Most recently, she was assistant director of development at The Second Mile in State College, coordinating all fund raising and special events. She also published the quarterly newsletter and annual report, and wrote major grant proposals.

Ms. Stine is a former executive director of the YWCA in Mansfield, Ohio, where she was responsible for operations at the 38-employee facility and at three satellite day-care facilities. She also has been a division director for the March of Dimes in Mansfield, organizing and directing all fund-raising activities over a nine-county area; and was the volunteer coordinator for Mansfield General Hospital.

She has a bachelor's degree in history from Ohio University and a master's degree in the same field from The Ohio State University.



June Stine

Faculty/Staff Alerts

Holiday schedule

Questions arise each year regarding the University's December/New Year's slowdown period. There are no "odd" weekdays involved in the schedule this year between the last day offices and normal operations are open, until the day the University reopens. Except for essential services and operations, the University will close at the normal end-of-business times on Thursday, Dec. 21, and will reopen at normal starting times on Tuesday, Jan. 2.

The official University holidays are: Friday, Dec. 22, Monday, Dec. 25, Tuesday, Dec. 26, Wednesday, Dec. 27, Thursday, Dec. 28, Friday, Dec. 29 and Monday, Jan. 1.

In keeping with this schedule, biweekly and monthly paychecks will be released on Thursday, Dec. 21. Biweekly paychecks will be negotiable Dec. 21. Monthly paychecks will be negotiable Dec. 29. Automatic deposits will not be made early.

This schedule is not applicable for The Milton S. Hershey Medical Center, since different holiday time-of arrangements have been made because of the nature of the medical center.

Questions regarding the above holiday information should be directed to the appropriate college or department human resources representative, or director of business services at a facility away from University Park.

Holiday mail service

Mail service to the University community will be suspended from 5 p.m. Thursday, Dec. 21, until 8 a.m. Tuesday, Jan. 2, due to the holiday season.

Only buildings that currently receive direct delivery from the U.S. Postal Service will be eligible to receive mail during this time. To find out if your building is eligible to receive incoming U.S. mail, please call Carolyn Hampton or Paul Fetzer at (814) 865-9171 before Dec. 9, or check with the facilities coordinator for your academic/administrative area. Arrangements will be made with the U.S. Postal Service for eligible buildings to receive mail if so desired. Buildings that do not receive direct delivery will receive mail after the University resumes operation on Jan. 3.

Interoffice envelopes

Mail Services requests that all excess interoffice envelopes be returned to 108 Business Services in order to facilitate equal distribution to all departments. Also, please return any mail tubs that are being used for office storage. A critical shortage has occurred with these items and your help is needed to keep them in circulation and to avert unnecessary expense.

Withholding on non-overnight meals

Amounts associated with non-overnight travel meal reimbursements are taxable fringe benefits and are included on employees' W2 forms. In order to comply with IRS regulations, the University will withhold federal income, FICA (Social Security) and Medicare taxes from these taxable fringe benefits on either the last pay in November for employees paid bi-weekly or in November's pay for employees paid monthly.

The taxable fringe on these meals is accumulated Nov. 1 of the previous year through Oct. 31 of the tax year. This method is approved by the IRS and is referred to as the "Special Accounting Rule for Fringe Benefits Provided During November and December."

If you have any questions, or need additional information, please contact the Payroll Office at (814) 865-7621 or payroll@cas.psu.edu.

HRDC programs

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog.

Personal Goal Setting And Achievement (PER 013) Meets Friday, Dec. 15, from 8:30-11:45 a.m., in 319 Rider; cost: \$35.

Excel 5.0 Level 1 (IBM 007) Meets Monday and Wednesday, Dec. 18 and 20, from 1-5 p.m., in 116 Wagner Building; cost: \$110.

Intermediate IBIS (ADC 004) Meets Tuesday, Dec. 19, from 9 a.m.-noon, in 116 Wagner Building; cost: \$40.

Management Challenges For The Professional/Technical Specialist (LDR 024) Meets Tuesday, Dec. 19, from 9 a.m.-4 p.m., in 319 Rider Building; cost: \$55.

Coaching For Exceptional Performance (LDR 022) Meets Wednesday, Dec. 20, from 1:15-4:45 p.m., in 319 Rider; cost: \$35.

An Overview Of Continuous Quality Improvement (CQI 001) Meets Jan. 4, from 8:30-11:30 a.m., in 319 Rider Building; cost: none.

Ticket outlets

Selected Uni-Marts convenience stores across the region will serve as Bryce Jordan Center ticket out-

lets. The ticket outlets will provide easy access to Jordan Center tickets for citizens across the state. The 11 cities with ticket outlets at Uni-Marts will be: Altoona, Bellefonte, Clearfield, Harrisburg, Lewisburg, Lewistown, Mill Hall, Phillipsburg, State College, Tyrone and Williamsport.

The system features "open inventory," meaning any ticket can be purchased from any location. Since every seat will be sold on a first-come, first-serve basis, people across the state will have equal opportunity to purchase the best seats available, officials at the center said.

The Uni-Marts ticket outlets will start operations in mid-December.

Tax reminder

Tax time is quickly approaching. To ensure there are no problems in receiving your W-2 in a timely fashion, the Payroll Office reminds employees to make sure they have the correct address on file.

If your payroll check is direct deposited, your W-2 will be mailed to the office address shown on your deposit slip. If your payroll check is not deposited, the W-2 will be mailed to the address shown on the payroll check.

If you need to make a change, please submit a new W-4 card and/or office address change as soon as possible. For more information, contact the Payroll Office at (814) 865-7621 or payroll@cas.psu.edu.

Withholding reminder

Employees who filed a Withholding Exemption Certificate — University Form W-4E — for 1995, are reminded this certificate expires Feb. 15, 1996, for taxpayers on a calendar-year basis. The exemption claimed on Form W-4E must be renewed annually. The W-4E should not be used by international employees to claim exemption based on a tax treaty. IRS "Form 8233" is used for that purpose.

If you qualify and wish to continue your exemption, or if you are applying for the first time, you must file a new Form W-4E for 1996. You may claim exemption from withholding if you had no income tax liability for 1995 and if you anticipate no income tax liability for 1996. Forms are available from the Payroll Office, 307 Rider Building, University Park, and should be filed no later than Jan. 15.

In general, the elimination of the withholding applies only to those working part time. The principal advantage is that, for some, it may eliminate the need to file an income tax return at the end of the year to obtain a refund of money withheld.

25-year Awards



Observing 25 years of service at the University are, from left, Annette Caruso, assistant professor of biobehavioral health at the Penn State Abington-Ogontz Campus; James Hodgson, associate professor of applied physiology in the College of the Liberal Arts; Stuart Mann, director of the School of Hotel, Restaurant and Recreation Management and professor of operations research in the College of Health and Human Development; and Mary Ann Garrett, nurse clinician, Department of Obstetrics and Gynecology; Fern I. Gruber, Anesthesia Workroom attendant, Department of Nursing; and M. Sandra Wood, librarian, George T. Harrell Library, all at The Hershey Medical Center.

Team demonstrates factory-style cell processing in space

Researchers have successfully demonstrated a "coupled technology" approach for processing biotechnology products in space that could help turn a space station into a medicine factory.

W. C. Hymer, professor of biochemistry and director of the Center for Cell Research, was principal investigator on the project which, for the first time, coupled cell growing and processing methods with a separation and sorting technique, called electrophoresis, in space.

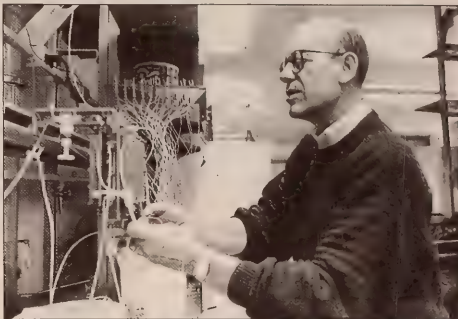
The experiment was part of the international Microgravity Laboratory (IML-2) mission launched in July last year.

In the IML-2 experiment, live pituitary cells from rats were maintained in a new Japanese-built cell culture kit and processed in a European-developed glove box where the cells were detached from the kit growing tubes and broken open. The cell contents were then separated and sorted on a Japanese Free Flow Electrophoresis unit.

Because the approach succeeded on IML-2, Dr. Hymer thinks the "culture, process, separate" sequence could eventually be used aboard a space station to process medicine-producing genetically engineered cells. Since some cells may produce more, or perhaps, better products in space than on Earth, Dr. Hymer thinks the coupled technology approach looks especially promising for a space station when it is fully operable in 2001.

Dr. Hymer says the astronauts aboard IML-2 were able to prepare fresh enzyme solutions needed to process the cells and to perform other procedures used in biotech manufacturing on Earth. He notes that simple operations, such as mixing solutions, are difficult in space where liquids, unless carefully confined, can escape from containers as weightless, floating droplets.

In addition to demon-



W.C. Hymer, professor of biochemistry and director of the Center for Cell Research, was principal investigator for the IML-2 mission.

Photo: Greg Grien



Astronauts Leroy Chiao, top, and Donald A. Thomas are seen at work in the International Microgravity Laboratory (IML-2) science module, aboard the Space Shuttle Columbia during a mission in July 1994. The astronauts were working on Dr. Hymer's project.

Photo courtesy NASA

strating that "factory-style" processing is possible in space, the experiment also showed, for the first time, that microgravity affects many of the six major types of hormone-producing cells in the rat pituitary gland.

In humans, the pituitary, often called "the master gland," is a lima-bean-sized organ at the base of the brain.

In previous space experiments, Dr. Hymer and his research group showed that microgravity alters the quantity and quality of growth hormone and prolactin produced by pituitary cells. The IML-2 experiment showed that pituitary cells that produce the other four major hormones (follicle stimulating hormone, luteinizing hormone, thyroid stimulating hormone and adrenocort-

icotrophic hormone) are sometimes similarly affected.

"In our previous experiments we focused on synthesis and release of growth hormone and prolactin because those two

hormones are known to participate in regulation of the musculoskeletal, immune, vascular, metabolic and endocrine systems, all of which are known to change in humans exposed to low gravity," Dr. Hymer said.

"We decided to look at the four other hormones because of their well known roles in controlling reproduction and stress."

The experiment also revealed, for the first time, that some of the changes that occur in microgravity correlate with cell feeding frequency. "If this correlation can be shown with other cells, it may eventually be used to manipulate the cell culture environment to maximize either cell output or separation," Dr. Hymer said.

The final part of the IML-2 experiment involved separating and sorting the cell contents on the Japanese electrophoresis device in space. Although that phase of the experiment was hampered by instrumentation problems, Dr. Hymer said that enough of the material was processed to verify previous experiments that showed better separation and sorting in space.

— Barbara Hale

Research

Roundup

Polymer research, take 1

Taking advantage of recent catalyst technologies, researchers are making combinations of plastics — block and graft copolymers — efficiently and uniformly for a wide variety of potential applications.

"Mixing different polymers to create tailor-made plastics for specific purposes would solve many economic and material properties problems in the industry," T.C. Mike Chung, professor of polymer science, said. "Polyolefins with physical properties such as adhesion, dyeability, paint ability, print ability and compatibility with other polymers are highly sought after."

The way to produce polyolefins with these characteristics is to combine them with other polymers that already have these properties. But just as paint, ink and dye won't stick to polyolefins, neither will other polymers. Polyolefins are attractive because they are a class of inexpensive plastics that include polyethylene and polypropylene.

Dr. Chung is working with H.L. Lu and W. Janvikul, graduate students in materials science.

Polymer research, take 2

The proliferation of new plastics for such consumer goods as electronic components, food storage containers, VCR tapes and cookware is forcing researchers to look for more efficient ways to make building block chemicals for these materials.

Examples of these new materials are polyethylene naphthalate (PEN), polybutylene naphthalate (PBN) and liquid crystalline polymers (LCP).

"Some of these plastics have special properties like heat resistance and ultra-violet screening," Chunshan Song, assistant professor of fuel science and associate director of the Laboratory for Hydrocarbon Process Chemistry, said.

One problem faced in creating the building blocks, or monomers, for these advanced plastics is cost-effectively producing high percentages of the exact chemical required.

Dr. Song and Andrew D.

Schmitz, research associate in fuel science, are trying to tip the balance toward their preferred attachment sites by using shape and size to sort for the desired end product.

Faculty Senate to meet Dec. 5

The University Faculty Senate will meet at 1:30 p.m. Dec. 5, in Room 112 Kern Graduate Building on the University Park Campus.

Items to be addressed:

- Credit by transfer from other institutions — Nonaccredited institutions (legislative)

- HR-23: Modifications of college and university library review level (advisory/consultative)

- Reserved Spaces Program (informational)

- Curriculum report of Nov. 20

- Faculty Rights and Responsibilities Annual Report for 1994 (informational)

- An overview of support for research (informational)

- Update on CES planning (informational)

- Report on University Health Services (informational)

- Summary of the Capital Project review process

Members of the University community may attend. Any member of the University community not a member of the Senate may request the floor on any item of business. Requests must be made to the chair through the secretary of the Senate, at least four calendar days before the meeting at which the individual wishes to speak.

News in Brief

Fellowship group

Tom Falchak, manager, University Creamery, will speak on "The Importance of Food in the Scriptures" at noon Monday, Dec. 4, in Room 212 of Eisenhower Chapel on the University Park Campus. The presentation is sponsored by the Penn State Catholic Faculty and Staff Fellowship Group. All are welcome. Bring your lunch.

Food purchasing study

A study in the College of Health and Human Development to determine how women make decisions for food purchases is currently being conducted. The Point-of-Purchase Study is looking for women 40-60 years old with adult-onset diabetes. Eligible participants will join a discussion group on grocery shopping and answer a brief questionnaire on shopping habits. Participants will be reimbursed. Results of the study will be used to develop programs for families affected by diabetes. For information, call 863-2916 after 5 p.m. The study is under the direction of Cheryl Achterberg, associate professor of nutrition.

CARPOOLERS

Nancy is seeking a carpool/ride for winter months from the McAlvey's Fort area to University Park. Call 863-0841.

Barby would like to join a carpool from the Howard area to University Park. Work hours are 8 a.m. to 5 p.m. Call 863-1437 during the day or 625-2096 in the evening.



That's a lot of coal

The University Park Campus uses 65,000 tons of soft coal a year as its primary heating fuel. It takes about 3,000 trucks, at 20 tons a truck-load, to deliver that much coal. That translates into roughly \$2.5 million, and one very large mound of heating fuel.

Photo: Greg Grieco

BOOK SHELF

Daniel Walden, professor of American studies, English and comparative literature, is editor of *Studies in American Jewish Literature*, Vol. 14, titled "Bellow and Malamud: Thinking Writers, Radical Humanists."

Joel Salzborg, of the University of Colorado at Denver, served as guest editor of the first part of the volume, titled "Bernard Malamud's Literary Imagination: A New Look."

In addition to serving as editor, Dr. Walden contributed an essay, "The Bitter and the Sweet: The Angel Levine and 'Black is My Favorite Color.'"

Naomi Seidman, assistant professor of Hebrew and Jewish studies, contributed "A Brief History of Jews in America: Remembering Brooklyn" to the volume.

Diane Zabel, social sciences reference librarian, and Nancy Herron, director of academic affairs at the Penn State McKeesport Campus, are editors of *Bridging the Gap: Examining Polarity in America*, (Libraries Unlimited, 1995).

The book includes 12 bibliographic essays written by the editors and nine contributing authors, all librarians at Penn State. The contributing authors include Christine Avery, business reference librarian; Adele Bane, former head librarian at Penn State Great Valley; Debora Cheney, documents/maps librarian; Kevin Harwell, documents librarian; Nancy Henry, science and technology librarian; Steven Herb, education librarian; Helen Sheehy, documents librarian; Diane Smith, former chief of reference services; and Carol Wright, education librarian.

The authors describe the crucial issues of the times and provide sources for exploring them. The chapters cover general issues of polarity: the federal government's role in bridging the gap in social services; law and criminal justice; poverty, welfare and unemployment; caregiving and caregivers; hunger and malnutrition; the homeless; children and learning; adult literacy; substance abuse; health care; and changing family structures.

PENNSTATE INTERCOM

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Volume 25, Number 16

Shaking down the Jordan Center

Workers prepare the \$53 million facility for opening on Jan. 6

Before the end of the month, the Bryce Jordan Center on the University Park Campus will undergo an event that, in the eyes of some, could be more important than any concert or any of the 15 scheduled Big 10 basketball games.

With people stationed at every public restroom facility, at each of the 229 fixtures—hands poised, hovering over handles waiting for the go ahead—a simultaneous flush will take place to simulate an intermission in what could be called the "Royal Flush Off."

As part of its "shakedown" period, a procedure that tests various aspects of the facility's operations before its scheduled Jan. 6 opening, Bob Fantaskie, plant manager for the 360,000-square-foot structure, said simulating an intermission period when people flock to the restrooms is just one of the dozens of things that must be accomplished to ensure that everything in the building is in proper working order.

"We will be testing the lights, restrooms, water pressure, sound system, fire alarms, heating and air conditioning," he said. "We'll be cleaning up, waxing the floors, sealing ceramic tile, laying the gym floor, installing basketball goals and putting all those finishing touches on the facility before the doors open."

Turned over to the University by the state on Nov. 30, the \$53 million structure is scheduled to host the first commencement exercise of the year on Jan. 6. (See story on page 3). On Jan. 11, the Nittany Lions men's basketball team will take the 30,680-square-foot arena floor in a game against Minnesota that will be televised on ESPN. Center officials, who are waiting to receive information on future scheduled events, are still in the midst of marketing the facility to tighten up the roster of offerings.

The Jordan Center, opposite Beaver Stadium at the intersection of Curtin Road and University Drive, is the third largest arena in the Big Ten and the largest facility of its kind between Pittsburgh and Philadelphia.

"The work on our end really begins this month,"



In working order

As part of preparing for the Jan. 6 public opening of the Bryce Jordan Center, lighting contractor John Lithonia (left) and Rick Bush of the Office of Physical Plant, check the lighting system at the arena.

Photo: Greg Grieco

Bob Howard, the center's general manager, said. "We have about \$7 million worth of equipment coming in and we have to be here to accept it, install it and train our people to use some of it. There will probably be

See "Jordan Center" on page 3

Sponsored research reaches all-time high

Income and expenditures for sponsored research at Penn State reached new highs in fiscal 1994-95 and are not yet showing the effects of recent Congressional efforts to slow the growth of federal grant programs.

Robert Killoren, director of sponsored programs, said that if all sources of support are considered, including federal appropriations, Penn State infrastructure support and institutional cost sharing, total expenditures for organized research at the University were \$344.3 million in fiscal 1994-95 versus \$316.6 million in the previous year.

Year-end accounting conducted by the Office of Sponsored Research shows that the University received \$258 million in federal, state and industrial research grants and con-

See "Funding" on page 8

University to discontinue use of Monroeville Center

Following a two-year internal review, the University will discontinue using its Monroeville Center facility by the end of the current academic year, and will relocate the appropriate graduate programs to other Penn State locations in the Greater Pittsburgh area.

"The issue prompting the decision to discontinue use of the building involves the high cost of operating the facility and the increased efficiency to be gained by offering courses at other University locations," **James H. Ryan**, vice president and dean of Continuing and Distance Education, said.

See "Monroeville" on page 12

Inside



It's SuperCupboard

Penn State is involved in a national program to help local participants learn to better feed their families and better manage their resources. See story on page 10.



Warning for athletes:

Watch your fat intake, don't eat too many sweets, buy low-sodium products...and the list goes on. But not everyone should heed these warnings. See page 15 for details.

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DIVERSITY

Schraer award to recognize those who help others

The Rosemary Schraer Mentor Award has been established by the Commission for Women to annually honor University employees who have excelled in helping others recognize and achieve their potential professionally and personally. Nominations are due by Jan. 18.

Named in honor of former Associate Provost **Rosemary Schraer** (1981-85) who joined the University in 1959 as a faculty member in the Eberly College of Science, the award recognizes individuals who have advised, facilitated, encouraged or paved the way for others. Dr. Schraer, who went on to become executive vice chancellor (1985) and then chancellor (1987) of the University of California, Riverside, was noted for her mentoring abilities. She died in April 1992.

Consideration for the award will be given to any faculty or staff member who has a

record of outstanding mentoring service going beyond the requirements of their employment.

A selection committee has been established to oversee the award process. It includes: **Ingrid Blood**, chair; **Jean Landa Pytel** and **Deborah Klewans**, University Park; **Nancy L. Herron**, Penn State McKeesport Campus; and **Mark K. Howett**, The Hershey Medical Center.

Additional information and nomination forms are available by calling (814) 865-1683. Nominations should be returned to Ingrid Blood, Commission for Women, 311 Grange Building, University Park, Pa. 16802.

Contributions to help endow the award may be made payable to The Pennsylvania State University and sent to 1 Old Main, University Park, Pa. 16802, with an indication that contributions are to be credited to the Rosemary Schraer Fund.

"Voices of the Dream" start of King activities

The Forum on Black Affairs "Voices of the Dream" banquet at The Penn State Scanlon at University Park on Sunday, Jan. 14, will kick off a weekend celebration of Martin Luther King Jr. on the campus.

The forum will present the annual Humanitarian Award and the Sterling Brown Scholarship during the banquet. This year's theme, "Voices of the Dream," reflects the contributions that music and song made to the civil rights movement. Area groups including Ecclesiastes and Urban Fusion will be featured.

Commemoration events continue on Jan. 15, Dr. King's actual birthday, with "We Are The Dream," an original dramatic presentation written by visiting professor of theatre **Charles Dumas**. It will be performed at 7:30 p.m. in Eisenhower Auditorium.

Activities that focus on community service will continue during the week and throughout the year. On Tuesday, Jan. 16, the Student Volunteer Fair will be held at the HUB, and on Wednesday, Jan. 17, a Community Volunteer Fair for Centre County residents will be held at the State College Area High School South cafeteria.

News in Brief

McCoy Natatorium hours

The hours for the McCoy Natatorium Rec Swim and Fitness Loft during the holiday season follow:

Dec. 9: 4-9:50 p.m.
Dec. 10: 2:30-9:50 p.m.
Dec. 11, 12, 13: 6:30-9:50 p.m.
Dec. 14, 15, 16: 10:30 a.m. to 2:30 p.m.
Dec. 17: 10:30 a.m. to 1 p.m.
Dec. 18, 19, 20, 21, 22: 10:30 a.m. to 1 p.m.
Dec. 23, 24, 25, 26: Closed.
Dec. 27, 28, 29: 10:30 a.m. to 2:30 p.m.
Dec. 30, 31: Closed.
Jan. 1: Closed.
Jan. 2, 3, 4, 5: 10:30 a.m. to 2:30 p.m.
Jan. 6: Closed.
Jan. 7: 2:30-6 p.m.
Jan. 8: Regular hours.

This schedule is subject to change depending on staff availability. For information, call (814) 863-1311.

Library hours

During the final exam period, Pattee Library hours are extended in the Reserve Reading Room and East Pattee floors 1-4 for studying and in-house use of materials. The hours are:

Dec. 8: 7:45 a.m. to midnight
Dec. 9: 8 a.m. to midnight
Dec. 10: 9 a.m. to 2 a.m.
Dec. 11 through Dec. 14: 7:45 a.m. to 2 a.m.
Dec. 15: 7:45 a.m. to midnight
Dec. 16: 8 a.m. to 5 p.m.

*All public areas in Pattee Library normally open on Sunday will open at 9 a.m. on Dec. 10. The Music Listening Room will maintain regular hours during the final exam period.

Pollock Library will continue 24-hour service during the final exam period until closing at 5 p.m. Saturday, Dec. 16. Pollock Library will remain closed through Sunday, Jan. 7, and reopen on Monday, Jan. 8.

All University Park Campus Branch Libraries will maintain regular operating hours through Friday, Dec. 15. They will close at 5 p.m. Saturday, Dec. 16, and remain closed Sunday, Dec. 17.

Following are the hours for the remainder of Intercession:

Pattee Library

■ Arts Library*, Documents/Maps, General Reference, Lending Services, Life Sciences and Periodicals:

Dec. 17: Closed
Dec. 18 to Dec. 21: 8 a.m. to 10 p.m.
Dec. 22: 8 a.m. to 5 p.m.
Dec. 23 to Dec. 25: Closed
Dec. 26 to Dec. 29: 8 a.m. to 5 p.m.
Dec. 30 to Jan. 1: Closed
Jan. 2 to Jan. 4: 8 a.m. to 10 p.m.
Jan. 5 to Jan. 6: 8 a.m. to 5 p.m.
Jan. 7 to Jan. 8: 10 p.m.

*On the days when Pattee is not closed, the Music Listening Room will be open from 1 to 5 p.m. and closed weekends, except for Sunday, Jan. 7, when it is open from 1 to 10 p.m.

■ Historical Collections/Labor Archives, Interlibrary Loan, Penn State Room/University Archives, photoduplication, Rare Books Room and Reserve Reading Room/Microforms

Dec. 17: Closed
Dec. 18 to Dec. 22: 8 a.m. to 5 p.m.
Dec. 23 to Jan. 1: Closed
Jan. 2 to Jan. 5: 8 a.m. to 5 p.m.
Jan. 6 to Jan. 7: Closed

University Park Campus Branch Libraries

■ The Architecture, Earth and Mineral Sciences, Education, Engineering, Mathematics and Physical Sciences libraries' hours during the remainder of Intercession are:

Dec. 17: Closed
Dec. 18 to Dec. 22: 8 a.m. to 5 p.m.
Dec. 23 to Jan. 1: Closed
Jan. 2 to Jan. 6: 8 a.m. to 5 p.m.
Jan. 7 to Jan. 8: 10 p.m.

All libraries will resume regular operating hours on Monday, Jan. 8.

For more information on hours of library service, call (814) 865-3063 or type HELP HOURS when using the Library Information Access System (LIAS).

Faculty/Staff Alerts

Asia-Pacific Survey

The Australia-New Zealand Studies Center, a unit of Penn State's Intercollege Research Program, is chairing a task force to look into the full range of Penn State's research activities and course offerings having to do with the Asia-Pacific region. To establish a baseline inventory of these activities, the task force is circulating a questionnaire to Penn State faculty conducting research or teaching about Australia, New Zealand, Oceania, Japan, Korea, Taiwan, Singapore, Hong Kong, Indonesia, Malaysia, Philippines, Thailand, Vietnam or China. Recipients are asked to complete the questionnaire by Dec. 15.

Based on responses to the survey and on discussions at meetings, the task force will make recommendations to the University's Office of International Programs about the direction Penn State should take in formalizing its activities in the Asia-Pacific region.

If you have not received a questionnaire and are actively engaged in teaching or doing research in the Asia-Pacific region, please contact **John M. Keller**, associate director, Australia-New Zealand Studies Center, 427 Bouckard, at (814) 863-1603; fax: (814) 865-3336; E-mail: jmk13@psu.edu.

Evan Pugh nominations due

The closing date for Evan Pugh Professorship nominating materials is Friday, Jan. 5. All nominations must be submitted in accordance with established guidelines and should be sent to **Ginny Imboden** in 207 Old Main. Nomination guidelines may be obtained by calling (814) 863-9580, by E-mail to vx12@psu.edu, or by stopping in 207 Old Main.

Deadline for nominations nears

The Jan. 5 deadline for nominating individuals for the 1996 Faculty/Staff Achievement Awards is quickly approaching. The awards, which include the McKay Donkin Award, the Award for Administrative Excellence, the Staff Excellence Award, the Barash Award for Human Service and the Equal Opportunity Award, will be made in the spring. For more information about the awards, contact the Office of Human Resources at (814) 863-4315.

For a standardized nomination form, contact the Office of Human Resources. Nominations should be sent to **Billie S. Willis**, Box 6, Rider Building, University Park, Pa. 16802.

Jordan Center

continued from page 1

more than 300 purchase orders involved and 2,000-plus pieces of equipment. Everything from office furniture, to mechanical equipment, to concession area equipment."

Mr. Howard said the bulk of the work will be installing the remainder of the seats in the 16,000-seat facility. He said crews are about a third of the way done with that process.

Because the Jordan Center is "a state-of-the-art structure," Mr. Fantase said training of personnel to operate the sophisticated computerized systems within the building is crucial to the facility's success. Everything from the scoreboard to the sound rigging and even the lighting system, requires workers to be trained in their operation. The plant manager said training for his staff, as well as backup workers from the Office of Physical Plant, is already under way.

"It's not like we can just walk in the building and flip on a light switch, and the sound system is obviously not just one microphone and one amplifier," Mr. Howard said. "These lights are set up in zones and the sound system is pretty complicated. On the personnel end, we are training more than 400 people in their duties."

Mr. Howard, who managed other venues including the Savannah Civic Center in Georgia, said the opportunity to watch an arena be built from the ground up has proved to be useful in policy making and design alterations.

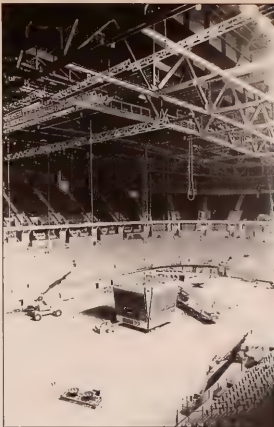
"When you inherit a structure, you come in and see quite a few flaws in design and you learn about what you would do differently if given the opportunity," he said. "We have that opportunity and we have made the Jordan Center user-friendly."

"There is a lot that is unique about the center. It is well-designed for multi-purpose use and there are plenty of opportunities for the entire community to use this facility for all different types of events and programs," Mr. Howard said. "I anticipate great support from this region."

It has been estimated that the Jordan Center will have an annual impact of \$23.9 million on the local economy. Once it's up and running, the center is expected to host more than 200 events annually that will attract about 1.25 million spectators.

"Our goal is to impress everyone who walks through the door," Mr. Fantase said. "On opening day, I want to watch some jaws drop. I think people are going to be amazed."

—Lisa M. Rosellini



The scoreboard sits in the middle of the Jordan Center's 16,000-seat arena, waiting to be lifted into place.

State completes Bryce Jordan Center

The state Department of General Services has handed over the keys of the newly constructed Bryce Jordan Center to University officials.

"The unprecedented commitment from both Penn State and DGS to complete construction on schedule has enabled Penn State to start preparing the facility now for their use in January," Gary E. Crowell, secretary of DGS, said.

Commencement ceremonies on Saturday, Jan. 6, and the Penn State-Minnesota basketball game on Thursday, Jan. 11, are the first events scheduled for the center. The basketball game will be televised on ESPN, enabling viewers across the country to gain a close-up look at the new building.

"We have been looking forward to the opening of the Bryce Jordan Center for some time, and are delighted that we are right on schedule," Gary Schultz, senior vice president for Finance and Business, said. "It is a magnificent facility that will serve the University well in many different ways."

Bob Howard, Bryce Jordan Center general manager, said the month of December will be very hectic at the facility (See story on page 1). Until January, building contractors will be finishing up their work, deliveries will be arriving and workers will be installing service equipment and furniture. Additionally, facility staff will begin training to use all of the building's systems.

The facility was designed by Haas, Rosser Fabrap, Brinjac Kambic in Joint Venture of State College.

Contractors include Gubane Building Company, retained by AETNA Casualty and Surety, for general construction; G. R. Spangnauer & Sons for heating, ventilating, and air conditioning; Jay R. Reynolds of Willow Street for plumbing and fire protection; Lombardo and Lipe Electrical Contractors of East Stroudsburg for electrical.

Jan. 6 commencement ceremony to be center's opening event

The University will hold its first commencement ceremony in the new Bryce Jordan Center on the University Park campus on Saturday, Jan. 6, 1996.

And the center's namesake, President Emeritus Bryce Jordan, will be the featured speaker at the ceremony for undergraduate and associate degree students at 10:30 a.m.

Graduate School ceremonies will be held at 2 p.m. in Eisenhower Auditorium. Guest speaker will be Barbara Shannon, dean of the College of Health and Human Development.

Approximately 3,426 students are scheduled to receive degrees at the two ceremonies. They include approximately 370 students who will receive associate degrees; 2,391 who will receive baccalaureate degrees; 458 who will receive master's degrees, and 207 who will receive their doctorates.

At Penn State Erie, The Behrend College approximately 115 students will receive baccalaureate degrees, and 13 students will receive master's degrees. Penn State Harrisburg is scheduled to award 236 baccalaureate degrees and 158 master's degrees.

President Graham Spanier will confer degrees at both University Park ceremonies. Provost John A. Brighton will preside at the undergraduate ceremonies, and John J. Cahiz, vice provost and dean of undergraduate education, will present scholastic honors. Rodney Erickson, dean of the Graduate School, will preside at the graduate ceremonies.

Dr. Jordan became the 14th president of Penn State on July 1, 1983. During his administration from 1983 to 1990, he achieved the University's goal to become one of the top public research universities in the nation. During that time the six-year Campaign for Penn State for academic support and programs surpassed its \$300-million goal with a total of \$352 million.

Research expenditures nearly doubled during Dr. Jordan's tenure from \$115 million in 1983 to more than \$260 million in 1990. And, total enrollment rose from 61,761 in 1983 to 70,031 in 1989, with an increase of 75 percent in minority enrollment during the same period.

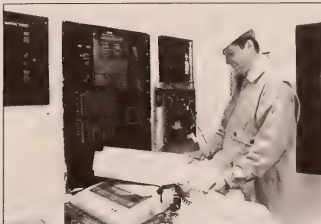
Before to serving as Penn State president, Dr. Jordan was executive vice chancellor for academic affairs at the University of Texas System. Previously he had been president of the University of Texas at Dallas and vice president for student affairs at the University of Texas at Austin.

He holds bachelor and master of music degrees from the University of Texas at Austin and a Ph.D. in historical musicology and comparative literature from the University of North Carolina.

Dr. Shannon, whose appointment as dean of the College of Health and Human Development was effective Jan. 1, 1995, had been serving as associate dean of the Graduate School at Penn State.

A University faculty member in the Department of Nutrition since 1971, she was promoted to full professor in 1983 and was named distinguished professor in 1990. She served as director of the Penn State Nutrition Center from 1978-89 and became associate dean of the Graduate School in 1991.

Dr. Shannon holds a bachelor's degree in general home economics from the University of Tennessee, and a master's and doctorate in foods and nutrition from the University of Illinois and Purdue University, respectively.



Bob Fantase, plant manager for the Jordan Center, looks over plans for the fire alarm system as part of the current work being done to prepare for the building's Jan. 6 public opening.

Photos: Greg Grieco

Center promotes use of advanced computers

The College of Engineering has established an interdisciplinary institute to promote the use of the fastest and most advanced computers in education and research.

Called the Institute for High Performance Computing Applications, the organization was established in consultation and cooperation with the colleges of science and earth and mineral sciences, the Center for Academic Computing and the Applied Research Laboratory. The institute pools the talents of Penn State's internationally known researchers in algorithm development, numerical analysis, parallel computing paradigms and computational physics and engineering.

Philip J. Morris, Boeing Professor of aerospace engineering, is center director; Lyle N. Long, associate professor of aerospace engineering and winner of the 1993 IEEE Computer Society Gordon Bell Prize in parallel processing, is technical director.

The institute helps faculty, staff and students apply parallel approaches to numerically intensive simulation problems. Numerical simulation of ocean currents, aircraft performance, pharmaceutical design or other "Grand Challenge Problems," will

"By training our students in the applications of this advanced equipment, we will be contributing an essential component to American industry's competitive edge."

Philip J. Morris
Boeing Professor of aerospace engineering

require a trillion operations per second—known as a teraflop. The institute directors say the U.S. computer industry could achieve that speed in a few years using massively parallel approaches.

However, Dr. Morris said, the U.S.'s current lead in the teraflop race is being jeopardized by the failure to get large parallel machines and parallel software technology into the hands of users.

"By training our students in the applications of this advanced equipment, we will be contributing an essential component to American industry's competitive edge," he said.

Currently, nearly 400 undergraduates and graduate students in 15 different aerospace, chemistry, computer science and engineering, mathematics and nuclear engineering courses are using two University Park classrooms equipped with high performance

workstations. The equipment, worth more than a half a million dollars, represents a \$275,000 grant from IBM through its Shared University Research (SUR) program and equivalent matching funds from the University.

Dr. Long, who is principal investigator on the IBM grant, said the equipment "enables us to teach and perform research in clustered-workstation parallel processing, shared memory SMP processing and parallel computing. It allows students to learn parallel processing interactively which gives them access to Penn State's primary parallel computers."

With a three-year grant from the National Science Foundation, Dr. Morris and faculty members from all three participating colleges will prepare four courses, one for undergraduates and three for graduate students,

plus a seminar series. The graduate courses will be part of a sequence leading to a minor in high performance computing. The new sequence will enable any student pursuing a graduate degree at Penn State to add a minor concentration in high performance computing.

In addition, through a \$600,000 grant from the National Science Foundation Academic Research Infrastructure program (ARI), an interdisciplinary group led by Dr. Long will acquire an intermediate-sized computer to bridge the gap between desktop workstations and the national supercomputers.

Dr. Morris noted that the CAC will continue to focus on hardware and software infrastructure, while the Institute will act as a focus for interdisciplinary groups of faculty members to develop proposals for acquiring equipment, developing courses and pursuing high performance computing applications.

For more information, access the institute's home page on the World Wide Web at URL <http://cac.psu.edu/~lnt/jhpc/>



Eleven faculty members awarded six-month fellowships for research

Eleven faculty research fellowships from the Institute for the Arts and Humanistic Studies have been awarded for the period from January to June 1996.

The institute, an independent unit within the University, was established in 1966 and annually awards between 16 and 20 research grants through its fellowship program. The research fellowships support creative and scholarly projects in the arts and humanities, and grants may be used for expenses such as travel, release time and wages for research assistance.

Projects that have been funded in recent years include original works of literature, art and music; archeological digs; photographic expeditions; political and military histories; and works of criticism and inquiry. These fellowships often function as seed money for projects that develop into major works.

This year's winners include:

■ **Maureen Carr**, professor of music in the School of Music, will continue research involving neoclassical dramatic works of Igor Stravinsky.

■ **Kim Cook**, associate professor of music in the School of Music, will present a recital at Carnegie Hall's Weill Recital Hall.

■ **Charles Garolan**, associate professor of art education in the School of Visual Arts, will perform research for the production of an educational video series and book on performance art.

■ **Daniel Letwin**, assistant professor of

history, will conduct research for a chapter, "African-American Politics and the Debate Over 'Social Equality,' 1911-1955."

■ **Shirley Marchalonis**, professor of English, comparative literature and women's studies at the Penn State Berks Campus, will write two essays — one on 19th-century American women's fiction and one on women protagonists and the structure of initiation.

■ **Dinty Moore**, assistant professor of English at the Penn State Altoona campus, will conduct research for a book on Buddhism in the American heartland.

■ **Susan Scaff**, assistant professor of comparative literature, will work on research on the interrelated themes of history and art in the works of Mann and Joyce.

■ **Adam J. Sorkin**, professor of English at the Penn State Delaware County Campus, will work on concurrent book projects involving the translation of Romanian literature.

■ **Nancy Tischler**, professor of English, will conduct research for a collection of letters of Tennessee Williams.

■ **Bruce Trinkle**, associate professor of music in the School of Music, will complete work on *Santa Rosalia*, a cantata based on the painting by Fernando Botero for PBS broadcast.

■ **Paul Youngquist**, associate professor of English, will perform research for a book titled *Culture of Melancholy*.

Staff Focus Committee lists strategic issues

The Staff Focus Committee, a group representing a cross-section of the staff employee category charged with advising the Office of Human Resources on a number of matters, has developed a list of strategic issues that should be addressed, including:

■ **Assisting the Office of Human Resources with the development of the assessment instrument for the Staff Review and Development Plan and form.**

■ **Participating in the pilot program of the Values and Practices Survey.**

■ **Assisting the Office of Human Resources with an analysis and assessment of its positions filled reports.**

■ **Planning a Staff Focus Committee meeting with the University president in attendance.**

■ **Participating in discussions related to the five-year strategic planning process about the future direction of the Office of Human Resources.**

Staff members are encouraged to bring discussion items to the attention of Billie Willets, assistant vice president for human resources, or any member of the Staff Focus Committee. Members include: **Lydia Abdullah** (Budget and Resource Analysis); **Duane Bullock** (Business/Operations, purchasing); **Kenneth Clarke** (Student Affairs); **Marylou Delizia** (Great Valley); **Evelynn Ellis** (Arts & Architecture); **Dee Frisque** (C&DE); **Kenneth Johnston** (Office of Physical Plant); **Jenny King** (Office of the President); **Beverly Ladrado** (Office of senior vice president for research and dean of graduate education); **Stan Latta** (Student Affairs); **Fred Loomis** (C&DE); **Kathleen Matson** (Earth & Mineral Sciences); **Lisa Oberster** (The Hershey Medical Center); **Debra Putt** (Berry College of Science); **Danielle Richards** (Berks); **Kenneth Rudy** (College of Engineering); and **Frank Simmons** (Agricultural Extension-Blair County).

Highlight on Undergraduate Education



Learning by doing

"Introduction to Engineering Design," a hands-on class for first-year engineering students at Penn State Erie, The Behrend College received the University Provost's Award.

Erie engineering students get hands-on experience

Engineering students at Penn State Erie, The Behrend College are getting real "hands-on" experience these days.

An award-winning course, EG 50, "Introduction to Engineering Design," provides first-year engineering students with an overview of engineering including an engineering approach to problem solving, according to Kathryn Holliday-Darr, instructor in engineering graphics.

This team-taught course received the University Provost's Award because it provides first-year engineering students with the rationale and motivation for their study of basic mathematics and physics during their freshman and sophomore years.

The course introduces topics on a "need-to-know" basis. Students are introduced to con-

cepts in math and physics as required to solve a real-world problem. This approach helps students understand the application of abstract concepts.

Conair Co., through a University-industry partnership, donated commercial products including hair dryers, a bill of materials, CAD drawings, pricing information and codes.

These items are crucial to the course structure, giving students an opportunity to experience the complete design process of a commercial product.

Interaction between students and faculty from the electrical, mechanical and plastics disciplines is also offered. This provides students with an opportunity to fully experience the actual engineering process.

Lecture

A chocolate-lover's dream come true

A three-hour exploration of the delectable, delightful and divine world of chocolate will be held from 7-10 p.m. Saturday, Dec. 9, at The Penn State Scanticon at University Park. Participants can meet with industry representatives to sample their products and the evening will be capped by a chocolate sampler buffet during "A Night of Chocolate: The Industry, the Culture and the Experiences."

Greg Ziegler, associate professor of food science, will lead a one-hour discussion of the appreciation of chocolate, its history and the industry in Pennsylvania. Seating is limited and the cost for the event is \$19.50. For information, call (800) 778-8632.

Promotions

Staff

Robert M. Moore, conference planner in Continuing and Distance Education.

Joanne L. Nash, staff assistant VI in the Office of the President.

Susan J. Newell, communications coordinator at The Hershey Medical Center.

Debra A. Noyes, conference planner in Continuing and Distance Education.

Kristin A. Owens, conference planner in Continuing and Distance Education.

Jeanne L. Price, human resources projects specialist in College of Agricultural Sciences.

Ramond K. Pruss, facilities coordinator in College of Agricultural Sciences.

Annamarie M. Rosenbaum, staff assistant VII at Penn State Great Valley.

Catherine L. Rung, staff assistant VII in the Office of the President.

Chris A. Schultz, conference planner in Continuing and Distance Education.

Melinda L. Scouten, transplant coordinator at The Hershey Medical Center.

Bruce B. Sisak, staff assistant VIII at The Hershey Medical Center.

Rachel E. Smith, budget planning officer in Commonwealth Educational System.

Rodney W. Smith, lead applications programmer/analyst in the Office of the President.

Deborah Snyder, staff assistant V in College of Health and Human Development.

Peggy A. Snyder, staff assistant V in the Office of Human Resources.

Anita H. Sprankle, staff assistant VIII in College of Engineering.

Suzanne St. Pierre, conference planner in Continuing and Distance Education.

Jennifer L. Stoner, staff assistant VI at The Hershey Medical Center.

Gregory E. Swope, manager, Prehospital Services, at The Hershey Medical Center.

Robert W. Tuit, police services officer at Penn State Erie, The Behrend College.

Melissa A. Visali, senior research technician at The Hershey Medical Center.

Wendy S. Weaver, senior applications programmer/analyst in the Office of the President.

Vickie L. Weidner, conference planner in Continuing and Distance Education.

Debra J. Witherie, staff assistant VI in College of Engineering.

Ronald R. Zimmerman, staff assistant V at The Hershey Medical Center.

NSF grants to Behrend top \$500,000

The National Science Foundation (NSF) has awarded more than \$500,000 in grants to faculty at Penn State Erie, The Behrend College since 1993. The money has been awarded to fund a range of projects from equipment in a new biology lab to the study of carbon in comets.

Following the belief that research will add to their teaching effectiveness, faculty are involved in the search for external funding, and the National Science Foundation is a primary resource. Each year the NSF, an independent federal agency founded to promote and advance scientific progress in the United States, receives 30,000 funding requests. Among the recent awards to faculty at Penn State Erie are:

■ \$212,011 to Jack Burke, associate provost, Roger Knacke, head of the Division of Science, and

Larry Eckrodt, associate professor of biology, to modernize the Nick Building for research and research training in biology;

■ \$76,007 to Robert Farrell, associate professor of engineering, for the acquisition of a blow molding machine for the plastics processing laboratory;

■ \$70,774 to Ken Fisher, associate professor of engineering, to acquire equipment for a materials selection laboratory;

■ \$65,000 to Pam Bots, assistant professor of biology, for collaborative research on the interactive effects of spatial and temporal patch structure on faunal dynamics;

■ \$51,460 to Mary Chisholm, associate professor of chemistry, for the addition of chiral gas chromatography in flavor chemistry research.



Outside initiatives

In past columns we have described CQI activities at Penn State. This week we will take a look at what is happening at several other universities.

Georgia Institute of Technology — Consultants from Peat Marwick have been hired by Georgia Tech to restructure their administrative service functions. The university wants these processes to become more customer-focused, rather than auditor-driven.

Purdue University — More than 150 administrators, faculty and staff gathered for a two-day retreat in October titled "Changes, Challenges, Solutions." The Excellence 21 Leadership Conference was the first gathering of representatives of all areas of Purdue to find out more about the continuous improvement initiative known at Purdue as Excellence 21. John Brighton, executive vice president and provost, was invited to speak at the retreat about Penn State's quality journey.

University of Wisconsin — In the history department at Wisconsin, the department chair, Kenneth Sacks, is using quality improvement tools to analyze and restructure the administrative processes critical to supporting the department.

Stanford University — The School of Medicine at Stanford, with the help of Coopers & Lybrand, is using re-engineering techniques to rethink their administrative structures. The medical school operated in an environment characterized by centralized accountability, decentralized spending authority and a layered system of checks and balances. Administrative inefficiencies were attacked by first identifying the school's core processes. "Process maps" were developed to analyze the relationships among administrative processes. The process re-engineering team contacted focus groups with the faculty and staff. Subsequent cost analysis revealed a large amount of resources being consumed by the non-core background and mandated processes. A new organizational construct was conceptualized and is currently guiding the medical school's restructuring efforts.

For more information about Continuous Quality Improvement, please contact Louise Sandmeyer, executive director of the CQI Center, at (814) 863-8721.

Health administration department celebrates its 25th anniversary

One of the nation's oldest and largest university programs in health care administration celebrated its silver anniversary this fall. Penn State's Department of Health Policy and Administration marked its 25th year with a weekend-long set of activities, including an alumni reunion.

The program traces its roots to a late-1960s visit by Penn State's Donald Ford to Marshall Raffel, who was working in the Surgeon General's office in Washington. Dr. Ford, who at the time was dean of the College of Human Development, challenged Dr. Raffel to come to Penn State and start a program to give students entry-level training in health administration. At the time, few such programs existed in U.S. universities.

The program grew rapidly, mirroring the growth of the health care field. The department's current undergraduate enrollment (375) is consistently the largest in the country, and its alumni number more than 2,700. Graduates work as administra-

tors, planners and analysts in such settings as hospitals, nursing homes and insurance companies, as well as HMOs and other managed-care settings.

A recent alumni survey showed that three-quarters of the program's graduates are working in the health care field. About half have gone on to earn M.B.A.s or other graduate degrees.

The department added a professional master's degree in 1978, and in 1989 started a Ph.D. program focusing on health services research. Today the two graduate programs have about 40 students. More growth at the graduate level is likely, with a proposed research master's degree under review and a joint MHA/MBA degree (offered in collaboration with The Smell College of Business Administration) scheduled to open in fall 1996.

Headed by Frederick R. Eisele, HPA also has an active research program, with the department's 10 full-time faculty involved in research

grants and contracts totaling about \$500,000 annually. In addition, HPA faculty have close ties with the Center for Health Policy Research (CHPR), which is part of the intercollege Institute for Policy Research and Evaluation.

HPA faculty also collaborate on research projects with faculty in the colleges of Health and Human Development, Engineering, the Liberal Arts, Agricultural Sciences and The Smell College and with partners in the health care industry.

The department's faculty come from such fields as management, gerontology, political science, economics and medicine. Dr. Eisele points out that having a multidisciplinary faculty allows the department to address health care issues in an integrated way, both in teaching and in research.

Only one faculty member from the department's early years remains: Stanley P. Mayers Jr., who joined the program in 1971 and served as department head from 1979-88.

BOOK SHELF

Eugene N. Borza, professor emeritus of ancient history, has been honored with a printed volume of his essays titled *Makedonia. Essays by Eugene N. Borza by the Association of Ancient Historians*. The book is a reprinting of 15 essays from 1971-1993 dealing with the history, geography, economics and archaeology of the Macedonians.

Published by the Association of Ancient Historians and Regina Press, the book is edited by Carol G. Thomas of the University of Washington. The 15 essays were selected from a body of more than 40 written works by Dr. Borza.

Robert Lima, professor of Spanish and comparative literature and a Fellow of the Institute for the Arts and Humanistic Studies, is author of *Dark Prisms: Occultism in Hispanic Drama*, published by the University Press of Kentucky as part of its Studies in Romance Languages series.

In the book, Dr. Lima broadly defines the terms "occult" and "occultism" to embrace the many ways in which humans have sought to understand a secret knowledge thought to be accessible only through such supernatural agencies as alchemy, angelology, asceticism, astrology, demonology, divination, ecstasy,

magic, necromancy, possession, seances, voodoo and witchcraft.

Dark Prisms examines aspects of esoteric knowledge and practices as manifested across the entire range of drama of the Hispanic world, from the Middle Ages to the 20th century, and from the Iberian Peninsula to the New World. Dramatic works covered range from medieval materializations of Hell to the Golden Age plays of Lope de Vega, Tirso de Molina and Calderón de la Barca, to modern stage works by Valle-Inclán, García Lorca, Casona and Miras.

Robert Proctor, professor of the history of science, probes deep into the endless debate about the causes of cancer and the political fight over the disease in his book *Cancer Wars* published by Basic Books.

Cancer Wars offers exposés on the mistakes made in waging what some have called "a medical Vietnam" against the disease. In his book, Dr. Proctor attacks government subsidies for tobacco farmers when cigarettes may cause up to 30 percent of all cancers. At the same time, he faults the National Cancer Institute for spending only 3 percent of its budget on smoking prevention. His book offers a historical perspective stretching from observations by Hippocrates to

arguments from this century's most controversial figures in cancer politics. *Cancer Wars* also outlines political controversies over chemical thresholds in the body, animal studies, natural carcinogens and genetic susceptibility.

In his new book, *Language, Culture and Power: Bilingual Families and the Struggle for Quality Education*, Lourdes Diaz Soto, associate professor of education, contends that current attempts to restrict public school teaching to English are badly misguided and overlook extensive research showing the benefits of bilingual education.

The book, published by SUNY Press, discusses the important social advantages to bilingual education and the significance of sharing cultures. Bilingualism is necessary to better position ourselves to achieve in an increasingly global economy, Dr. Soto said.

Dr. Soto also said proponents of monolingualism seem to be taking by allowing bilingual education in schools, we will be "Balkanizing" American Society and creating a potential Quebec.

"There is no danger that any ethnic or geographic segment of American society will stop using English. Ninety-eight percent of all Americans speak English for the simple reason that they need it to get ahead socially and economically," she said. The issue, according to Dr. Soto, is not the protection of English as an endangered species. In reality, the so-called second languages, such as Native American languages, are the ones in peril of extinction.

Borrowing an industry initiative, institutions face call for accountability from general public

In 1992 when changes needed to be made in operations in the Bursar's Office, employees like Kim Ripka thought the mandate would come from above, leaving them to follow a course of action that was doomed to fail.

"I've been here for 12 years and during those 12 years, when management made decisions they just came to you and said 'This is the way we do it now,' and that was the end of it," Ms. Ripka said. "And it didn't work. The case was usually that the left hand didn't know what the right hand was doing."

But this time was different.

Kim's managers pulled together a team of workers who analyzed their own jobs and the jobs of their coworkers. They looked at every aspect of their operation and the satisfaction level of their customers and offered suggestions on how to make their work flow more smoothly.

"The biggest thing in the whole process—which was a long process—was that the people who are actually doing the work are making the decisions,"

"The auto industry had a seller's market for 60 years and when it changed... we didn't recognize it. We've battled back, but if you wait until you go through that same cycle in the academic world, there are going to be casualties."

—Ally Hamood
manager of quality programs at General Motors

or later. There is greater competition for students, costs are going up and it's not necessarily the seller's market that it used to be," Ally Hamood, manager of quality programs at General Motors, said in relation to the current atmosphere in higher education.

But how would this auto industry executive from Michigan have any idea what is happening on campuses in Pennsylvania, let alone across the United States? He and others in positions similar to his say they are seeing warning signs in higher education similar to the indicators that surfaced in the automobile industry in the late 1970s—signs that went largely ignored until they were "swimming in red ink." "The auto industry had a seller's market for 60 years and when it changed to a buyer's market, we didn't recognize it," he said. "We failed to change quickly. We've battled back, but if you wait until you go through that same cycle in the academic world, there are going to be casualties."

Part of GM's return as an industry powerhouse—evidenced by their No. 1 ratings from J.D. Power and Associates and their soaring customer satisfaction—is due to its corporate-wide focus on quality through a systematic "Quality Network" that focuses on achieving customer satisfaction

through its people. Like GM, the other big three auto makers—Ford and Chrysler—also practice continuous quality improvement under various names.

"The total quality model applies just as much and just as fully in the university as in the business world," he said. "The people who are doing the work deserve the opportunity to express their opinion and to help improve the process and make conditions better. There is a lot of money to be saved by listening to those people."

Recognizing the need for change, more than 300 universities across the country are working with industry to alter how they deliver their services to students, according to Mr. Hamood. In fact, Penn State is one of 31 institutions in the nation that have entered into partnership with industry to exchange information and to help provide students with the fundamental skills required by the business world. In 1993, Penn State partnered with DuPont to further develop its quality initiatives. Known here as Continuous Quality Improvement, there are about 138 CQI teams operating at the University in

different units—all trying to improve their processes through teamwork and sharing of information.

"Most organizations only change in crisis. We should be wise enough not to wait for a crisis," Louise Sandmeyer, executive director of CQI for the University, said. "The public at large is becoming more critical of higher education, tuition increases are continuing, there is less state funding and corporations are expressing dissatisfaction with our ability to be responsive to their needs. There is an urgency to change and we need to be better listeners to those we serve both internally and externally. We need to stay competitive and the way to do that is to improve."

Ted Brown, leader of the Quality and Process Control Network for DuPont, agreed that large entities often wait for a crisis before testing new ideas and that hesitancy or reluctance is their downfall.

"DuPont was successful for so long, it was easy for us to fall into that trap. Fortunately, we began looking at what customers really wanted and we found out we weren't meeting that," he said. "It came down to the fact that if we didn't improve, we were basically going to go out of business."

As DuPont studied its situation, officials noticed that people coming into the work force lacked the quality concepts the company was espousing. DuPont turned to education as the answer, which led to its current partnership with Penn State—a partnership many, like the 14 schools in the Pennsylvania State System of Higher Education, are hoping to mimic. Representatives from the SSHA are visiting the University Park Campus today to get a better handle on Penn State's CQI program. Later this month, delegates from the University of Puerto Rico will trek to University Park for the same purpose.

"As part of a system-wide initiative we are investigating the philosophy of continuous improvement and what it could do for us," Yvonne Harhigh, SSHA director of publications and a member of the group that began studying quality concepts more than a year ago, said. "Our chancellor, as well as our governing board, know that times are changing and we need to look at how we're doing things in order to weather what is probably the biggest change period in higher education in a long time."

Ms. Harhigh, like others, admits the concepts of quality improvement are so simple and straightforward—ask customers what they want, give employees the resources to do their jobs well, share ideas and information freely, and listen to workers—that it's easy to discount them.

"Your first reaction to these concepts is to say 'We already do that,' but when you really take a step back and look, even though they are simple things, we really aren't doing these things," Ms. Harhigh said. "It takes a long time for people to understand it and it's a philosophy that needs to filter down."

Ms. Sandmeyer said more and more institutions are looking toward quality initiatives as a way to promote change and Penn State is fortunate to be in the forefront.

"Although we are now four years into the process of CQI, there are still people out there who are satisfied with the status quo," she said. "People need to recognize that no matter how well they're doing something, it can always be improved."

—Lisa M. Rosellini



CQI in action

One of Penn State's 138 CQI teams—in the University Libraries—sifts through information and analyzes the work process to come up with a feasible solution to a problem. Team work is a key concept under CQI.

she said. "I was glad to be a part of it and I have definitely seen the results."

Tagged with titles that some consider "buzz-words" like total quality management, continuous quality improvement and quality and process control, the terminology has turned people off, causing the movement to be labeled a fad. But if it's a fad, it's one that major corporations like General Motors, Ford and DuPont have embraced for nearly 15 years.

"Whether or not the language of CQI is adopted, the basic ideas of CQI—an ethic of continuous improvement, a focus on those you serve, fact-supported decision making, team work and a sense of collective responsibility for results—have seeped into the mainstream of higher education," Monica Manning, executive director of the American Association of Higher Education Academic Quality Consortium, said. The AAHE consortium, started in 1993, includes 20 member institutions across the country, including Penn State, and offers advice and leadership to colleges and universities that want to initiate change.

The world is going to catch up with you sooner

The ARTS

AT PENN STATE

Symphonic Band concert

The Symphonic Band presents its annual concert at 7:30 tonight in the HUB Ballroom on the University Park Campus. The band is conducted by Ned C. Deihl, professor of music education in the School of Music.

The program will include "A Movement for Rosa," written by Mark Camphouse in honor of civil rights heroine Rosa Parks; "Overture to Nabucco," by Verdi; "Newsreel," by Schuman, noted contemporary composer, "Homage to Leonin," and "Homage to Perotin," two movements for Medieval Suite by contemporary composer Ron Nelson; "Army of the Nile," by British march king Kenneth Alford; Christmas music, including "Sussex Mummers Christmas Carol," by Percy Grainger; and "Sleigh Ride," by Leroy Anderson.

The concert is free to the public.

Composers' Concert

The Penn State Composers' Concert will be held at 8 p.m. Friday, Dec. 8, in the Recital Hall of the School of Music Building on the University Park Campus. The concert will feature students of Paul Barson, composition teacher in the School of Music.

The program will feature works for brass ensemble, wind quintet, voice, strings, percussion, piano and piccolo. Composers represented on the program include undergraduates Dan Eichenbaum, Brendan Knowlton, Michael Kosak and David Shotsberger, and master of music candidate Fouad Fakhouri. The Penn State Composers' Concert features newly composed works for all musical media.

The concert is free to the public.

Odyssey on WPSU

Odyssey Through Literature, the Department of Comparative Literature's radio series, will travel to Tibet, Australia, Appalachia, China, and Chaucer's England during the semester.

On the next episode, Gerhard Strasser of the Penn State German department discusses his explorations on foot and paper of a 17th-century Jesuit mathematician's journey overland to Tibet.

Dec. 20 program focuses on former Professor Bruce Sutherland's mission to advance Australian literature.

On "Jack in Two Worlds," airing



On display

The exhibition "Intersections," by Marianna Mares Archambault, will be in Pattee Library's East Corridor Gallery through Jan. 3.

Dec. 27, William McCarthy of the Penn State Dubois Campus introduces a classic American tall-tale hero.

On "The Remote Country of Women," Jan. 3, Tom Beebe of the comparative literature department discusses a novel by Chinese dissident Bai Hua.

The Jan. 10 program features Chaucer biographer and scholar Derek Pearsall of Harvard University.

Odyssey Through Literature is produced at WPSX-TV as a continuing education service of the Department of Comparative Literature. It airs

Wednesdays at 8 p.m. on WPSU, 91.5 FM.

Photographs on display

"Intersections," an exhibition of color photographs by Marianna Mares Archambault, is on display in Pattee Library's East Corridor Gallery through Jan. 3. Visitors can meet the artist in the gallery on Saturday, Dec. 9, from 3 to 5 p.m.

Some of Dr. Archambault's photographs reflect her visits to Egypt and Morocco, but most of her photographs were taken during her travels to Europe, especially to France, Italy and the Czech Republic.

Since her first exhibition in 1991, her work has won several prizes including Best of Show in the Lewisburg Art Festival Photograph Contest in 1994.

Ms. Archambault received her doctorate from Penn State and is currently a professor of French at Bucknell University.

Fractals exhibited

An exhibition of color fractals created by Laurie M. Salopek will be on display in Pattee Library's Lending Service Gallery through Jan. 3.

Using Winfract for Windows, Ms. Salopek has created a series of computer-generated images which she colored using the program Corel Draw. She describes the resulting images as looking like silk ropes swirling downward, underwater waves, and neon lights.

Ms. Salopek is currently a graphics programmer for the Center for Academic Computing.

Funding

continued from page 1

tracts annualized for fiscal '94-'95. Grant and contract income for sponsored research totaled \$246.4 million. The income represents a 7.57 percent increase over fiscal 1993-94, well above inflation.

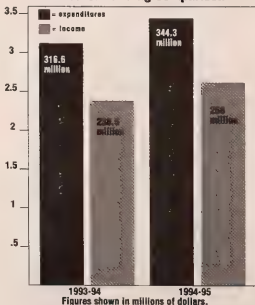
"These figures show Penn State faculty are continuing their outstanding performance in finding federal, state and industrial sources of support and competing successfully for them," David Shirley, senior vice president for research and graduate education, said.

In the most recent comparative study of the ability of university faculty members to take advantage of a broad range of funding opportunities, Penn State ranked first in the nation. Using data supplied by the National Science Foundation for fiscal 1992-93, the Higher Education Data Sharing Consortium found that Penn State received funding from 149 out of a possible 154 opportunities. Following Penn State were Ohio State with 145 "hits" and Michigan with 144.

Dr. Shirley noted that 1994-95's near-8-percent research expenditure increase (or 5 percent beyond inflation) is typical of the last five years and represents an important boost to the local economy.

"Just imagine," he said, "if a \$15 million company had been added to our local economy in 1994-95. The corresponding increase in research expenditures by Penn State has a similar effect — equivalent to the creation of hundreds of jobs — and is just as much an engine of development for our area."

Research funding comparison



While the effects of recent Congressional actions are not apparent in the '94-'95 figures, Mr. Killoren predicts that '95-'96 will provide evidence of a slowdown.

"We didn't see a slowdown in the '94-'95 results because of the lingering effects of multi-year grants awarded earlier and because the results of Congress cutting and terminating some programs are only now being felt," he said.

"The data we have so far for fiscal '95-'96 show the brakes have been hit," Mr. Killoren said while also pointing out there is opportunity in adversity. "Tight times often scare people away from applying for grants," he added, "so it's often the best time to submit proposals."

Dr. Shirley agreed the funding stream is slowing down but added that both political parties hold basic science and engineering research in high esteem and are favoring it in the budget process.

"I have confidence that our faculty will continue to do an outstanding job of finding and obtaining research support even as old sources of support disappear and the rate of increase in federal programs slows," Dr. Shirley said. "Their track record is among the best in the nation. They represent an enormous range of research expertise that is in demand to meet our society's needs."

Penn State ranks second in the nation in industrially sponsored research. The University's Research and Technology Transfer Organization is the largest and most comprehensive in Pennsylvania.

— Barbara Hale

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, December 7
Sigma Xi, noon, 305 HUB. James Frazier on "To Eat or Not to Eat: The Bitter Sweet Choices of Insects."

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Penn State Flute Ensemble.

Penn State Symphonic Band, 7:30 p.m., HUB Ballroom.

Friday, December 8

Classes End.

■ Geography's Coffee Hour, 3:30 p.m., 206 Walker Bldg. Sissel Schroeder on "Ancient Landscapes and Socio-Political Evolution Near Chokoma."

School of Music, 8 p.m., Recital Hall. Student Composers' Concert

Saturday, December 9

Shaver's Creek, 8 a.m. Wreath-making Workshops. Also at 1 p.m. Call (814) 863-2000.

Continuing and Distance Education, 7 p.m., Penn State Scanlon. Greg Ziegler on "A Night of Chocolate: The Industry, the Culture, and the Experience." For tickets, call (800) PSU-TODAY.

Multicultural Winter Festival, 8 p.m., Nittany Lion Inn. For tickets, call (814) 863-7840. No tickets will be sold at the door.

Sunday, December 10

Shaver's Creek, 1 p.m. Beyond Wreaths: Swags, Sprays, & Centerpieces. Call (814) 863-2000.

Saturday, December 16

Shaver's Creek, 10 a.m. Holiday Kid Craft. Call (814) 863-2000.

Monday, December 18

Hanukkah, through Dec. 25.
Catholic Faculty and Staff Fellowship Group, noon, 212 Eisenhower Chapel. Fr. David Arseneault on "Advent: Longing for a Savior to Fill the Void." Bring your lunch.

Friday, December 22

First day of winter.

University closed through Jan. 2, 1996.

Monday, December 25

Christmas Day.

Monday, January 1, 1996

New Year's Day.

Sunday, January 14

The Forum on Black Affairs, Penn State Scanlon. Dinner featuring community and campus churches and musical groups.

SEMINARS

Thursday, December 7

Ceramic Science, 11 a.m., 301 Steidle Bldg. Carl Friedhold on "The Role of Ceramic Thin Films in a Novel."

Econometrics, 2:30 p.m., 413 Kern. Andy Wen on "Alternatives to the Negative Binomial FIML Estimator for Poisson Regression Models with Overdispersion or Panel Data."

Physics, 3:30 p.m., 101 Osmond Lab. Gordon Fleming on "Competing Approaches to Quantum Theory."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Moody Chu on "Continuous Realization Methods and Their Applications."

Psychology, 4 p.m., Colonial Room, Nittany Lion Inn. Edward Smith on "The Architecture of Working Memory as Revealed by PET."



Art exhibit

"An architectural perspective on three destinations," watercolors by Amy Forsyth, assistant professor of architecture, will be on exhibit at the West Lobby Gallery of Pattee Library on the University Park Campus through Dec. 31.

Friday, December 8

Agronomy, 3:35 p.m., 101 ASI. Andreas Anne Couillard on "Evaluation of Turf Soil Profiles with Near Infrared Reflectance Spectroscopy."

Monday, December 11

Center for Gravitational Physics and Geometry, 3:30 p.m., 115 Osmond Lab. Eanna Flanagan, speaker.

CONFERENCES

Thursday, December 7

Domestic Relations Training, Days Inn Penn State. Also, Dec. 8.

Friday, December 8

Revising Ophelia: Saving the Selves of Adolescent Girls, The Penn State Scanlon. Presented by Mary Pipher, author. Lecture, Dec. 8, 8 p.m., and full-day workshop Dec. 9. For more information, call 1 (800) PSU-TODAY.

Sunday, December 10

A.J. Heinz Management Training, The Penn State Scanlon. Through Dec. 15.

Saturday, December 30

Penn State Baseball Clinic. Call (814) 863-0471 for place. Through Dec. 31.

Monday, January 8

Ice Cream Short Course, Nittany Lion Inn. Through Jan. 18.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 5-9 a.m.

"Performance Today," Mon.-Fri., 9-11 a.m.

"All Things Considered," Mon.-Fri., 4-7 p.m.; Sat. & Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m.

"Fresh Air with Terry Gross," Mon.-Fri., 7-8 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein," Wed., 8 p.m.

"Car Talk," Fri., 8 p.m. and Sun., 6 p.m.

"Living On Earth," Mon., 8 p.m.

"Inside Europe," Sat., 4:30 p.m.

"The Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

HUB

Art Alley Cases:

Janice Gainer will display her figural art, such as permanent chocolateware which she invented. Through Dec. 10.

Sam Chaar, artist and wood burner. Portraits, still life, and architectural scenes on wooden canvases on display through Dec. 10.

Art Alley Panels:

"This Is Our Yard," an AIDS awareness project, through Dec. 10.

Browsing Gallery:

Quilts by Fran MacEachren, through Dec. 10.

Formal Art Gallery:

Works by Dorothy Hook. Watercolors of Alaska and the Aleutian Island. Through Dec. 9.

Kern

Exhibition Area:

Basketry by Sherry Oberholzer, through Dec. 12.

Jewelry by Denise Arlow, through Dec. 12.

■ Photography of Katarin Parizek. Photos look inside working lives and homes of people from three world countries. Through Dec. 12.

Palmer Museum

"Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14, 1996.

■ Rapture at the Interface Between Love and Disease, contemporary photography and sound by David Tapica and Bryan Shuler. Through March 10, 1996.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10, 1996.

Pattee

East Corridor Gallery:

"Intersections," color photography by Marianna Mares Archambault. Through Jan. 3.

Lending Services Gallery:

Exhibition of color fractals created by Laurie M. Salopek, through Jan. 3.

Rare Books Room:

■ An exhibit of more than 150 editions and translations of "Der Struwwelpeter," or "Slovenly Peter," from the University Libraries' Allison-Shelley Collection. Through Dec. 15.

West Lobby Gallery:

"An Architectural Perspective on Three Destininations," art works by Amy Forsyth. Through Dec. 31.

Zeller Gallery

"Master of Fine Arts Thesis Exhibition," Dec. 9 through Dec. 15.

■ Reflects an international perspective

TIPS

Information Penn State

Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather — 234; Arts Line — 345; University Calendar — 456.

Agricultural Sciences appoints interim dean

James L. Starling, senior associate dean and professor of agronomy in the College of Agricultural Sciences, has been named interim dean of the college, effective Jan. 1.

Dr. Starling succeeds **Lamarine F. Hood**, who announced last July that he would step down from his administrative position, which he held since March 1986.

"Jim Starling has a thorough grasp of University administration and we are confident the college will continue on track while the search for candidates for a new dean continues," said **John A. Brighton**, executive vice president and provost. "That committee is chaired by **David A. Shiley**, senior vice president for research and graduate education, and is making good progress. We hope to have the search completed by the end of the spring semester."

Serving since 1985 as associate dean for administration and since 1993 as senior associate dean, Dr. Starling has been responsible for fiscal and personnel matters, strategic planning and physical facility development for the college. He has also provided administrative direction to the college's farm operations and auxiliary enterprises such as the Dairy Herd Improvement Association and the Agricultural Analytical Services Laboratory and has coordinated academic unit reviews.

Dr. Starling served as head of the Department of Agronomy from 1969 to

1985. Before his appointment as department head, he was a research project leader in forage crops breeding and genetics, with primary responsibility in perennial grass breeding and genetics. He also taught at the undergraduate and graduate levels. His course in applied statistics attracted students from throughout the University.

A member of the faculty in the Department of Agronomy since 1957, Dr. Starling received a bachelor of science degree in agronomy with a minor in botany from Virginia Polytechnic Institute and State University in 1951. He received a master of science degree in 1955 and a doctoral degree in 1958, both in agronomy, from Penn State.

Dr. Starling was elected a Fellow in the American Association for the Advancement of Science in 1987 and has continued to be an active member of a number of professional organizations and research groups. He has served as president of the Pennsylvania Forage and Grassland Council, the Pennsylvania Plant Food and Protection Education Society and the Northeast Branch of the American Society of Agronomy, and provided committee service for the American Society of Agronomy and the Crop Science Society of America.

For the University, Dr. Starling has been a member of the Faculty Senate and served on one of the first University strategic planning subcommittees, as well as on many college committees.

President named vice chair of national commission

President **Graham B. Spanier** has been appointed vice chair of the Commission on Information Technologies of the National Association of State Universities and Land-Grant Colleges (NASULGC).

Dr. Spanier will serve as vice chair for one year and then hold a three-year term as chair of the commission, currently chaired by **Samuel H. Smith**, president of Washington State University and former dean of Penn State's College of Agricultural Sciences.

Membership in NASULGC includes 176 public research univer-

sities located in all 50 states and the U.S. territories.

The Commission on Information Technologies, one of NASULGC's largest and most active commissions, was created to identify and develop policy positions and advisory assessment on information technology and related policy issues of concern to association members and to the nation.

The commission is committed to being a strong voice for public higher education by actively participating in federal initiatives relating to the development of the national information infrastructure.

Renaissance Fund dinner sets record, raises \$103,000 in scholarship money

The 19th annual Renaissance Fund dinner, held Nov. 16, set a new record for scholarship dollars raised by the event. The dinner, which honored community leader **Donald W. Hamer**, founder of State of the Art Inc., raised \$103,000 — surpassing the previous record of \$101,000 raised in 1993.

Since 1969, the Renaissance Fund has helped 1,194 young scholars complete their Penn State education. In the

past 26 years, the Renaissance program, created by five University trustees, has awarded more than \$2.8 million in scholarship support. This year, the Renaissance Fund awarded 260 scholarships. Fifty-two were awarded to freshmen who met the program's highest criterion for financial need — when resources cover no more than 30 percent of their educational expenses.

SuperCupboards program cooking up success

Observant window shoppers passing the Bellefonte Youth Center last Thursday morning would have noticed a trio of adults preparing skillet lasagna, salad, garlic bread and oatmeal raisin cookies. Those on the outside looking in, however, could not have guessed how different the three cooks' food preferences are.

If Marci was making the lasagna at home, there's no way she'd put cottage cheese in it. If Karen had cookies baking just for herself, not a raisin would be found in them. And if Brandi really wanted garlic bread that much, she just might buy some in the supermarket.

There's a lesson here somewhere. Maybe the lesson is that although no two homemakers fix meals in quite the same way, the end results can still be winners. In much the same way, the Pennsylvania-born program called SuperCupboards that brought Marci, Karen and Brandi together succeeds by being rearranged to meet the needs of each group that uses it.

By today, 11 homemakers will be graduates of the first two SuperCupboards classes ever held in Centre County. The Bellefonte class was led by **Karen Houseknecht**; **Marion Miles** led a Philipsburg class. Ms. Houseknecht and Ms. Miles are nutrition advisers in the Cooperative Extension offices of Clinton and Clearfield counties. Next April, new classes will form in Bellefonte and Philipsburg, and a State College class will be added.

Although supported locally by Cooperative Extension through its Expanded Food and Nutrition Education Programs (EFNEP) and a variety of Centre Region community organizations, SuperCupboards is promoted locally by the Harrisburg-based Pennsylvania Coalition on Food and Nutrition. The coalition is a nonprofit, statewide advocacy group



Eating the results

You eat what you prepare in the SuperCupboards class, and that's what Cathy Harrington, multi-county EFNEP agent for Cambria County, right, and class participant Marci are doing.

dedicated to addressing the problems of hunger and poverty. Any group that wishes may sponsor a SuperCupboards class using manual guidelines developed by the coalition and Penn State to teach nutrition, cooking skills, self-esteem building and self-reliance to local men and women who use emergency food relief programs on a regular basis.

"While primarily intended to break the cycle of chronic dependency on emergency food supplies, SuperCupboards classes also address other needs of the local community and other interests of the individuals taking the class," **Julie Haines**, a registered dietitian with the Department of Food Science and member of the Centre County SuperCupboards Com-

mittee, said. "For instance, beyond the food-oriented instruction, guest speakers may come in to talk about parenting, job readiness, first aid, home security, drug and alcohol abuse, domestic violence, and so on."

In addition to the educational aspects of the classes, SuperCupboards provides a positive social outlet for participants, Ms. Haines said.

"Our fall graduates didn't know each other before the classes began, but by the end of the second session, they were offering rides to each other and sharing pictures of their children."

A special feature of the eight-week Centre County classes was that after each cooking session, each participant was given a bag of groceries for home use corresponding to the dishes learned that day.

The food was provided by the Food Bank of State College at St. Andrew's Episcopal Church.

Other local organizations supporting SuperCupboards include Central Pennsylvania Community Action Inc., the Centre County Assistance Office, Counseling Service Inc., Family Health Services, Human Services Planning, the Retired & Senior Volunteer Program, Temporary Housing Inc. and the Centre County Youth Services Bureau.

The program has served as a model for national efforts such as its cousin, the Greater Philadelphia Anti-Hunger Council in 1987. Based in part on a study of program results by Ms. Haines with **Madeleine Sigman-Grant**, associate professor of food science, and **Judith Heald**, EFNEP program manager, the state Department of Agriculture is currently funding pilot programs in 11 more Pennsylvania counties.

For more information on SuperCupboards, call (717) 233-0795 or write to 208 N. Third St., Suite 200, Harrisburg, Pa. 17101.

— Gary W. Cramer

Awards



A little help for their friends

The Centre County Chapter of the Alumni Association completed a variety of projects during National Service Week, including planting a garden and flower bed at the Adult Day Activities Center in State College.

Photo: Courtesy of Alumni Association

Alumni Association helps others, is honored for nationwide efforts

The Penn State Alumni Association won first place for community service in the 1995 Awards of Excellence: Chapter Relations Program from the American Society of Association Executives.

Penn State won for its National Service Week, held May 15-21 last spring and directed by regional director James R. Caltagirone. With a membership of more than 134,000 alumni, the Alumni Association is the first alumni body to have undertaken

a weeklong nationwide community service initiative.

Sixty-nine chapters, eight campus societies, six college societies and two interest groups conducted service projects that ranged from fund-raising campaigns, cleanup details, and food and clothing collection drives, to home-building projects and social activities for the disadvantaged. In many instances, alumni groups and individuals joined forces with other organizations on their projects.

Penn State is one of four associations nationwide to be recognized for conducting outstanding chapter relations programs, and one of only two that received the Awards of Excellence trophy. The winners were recognized for their effective and innovative programs to bolster association chapters at the state and local levels.

ASAE's Chapter Relations Section has more than 530 members and the association as a whole has a membership of more than 23,000 alumni executives and suppliers.

Research associate awarded Tajima Prize

Leo B. Kriksunov, a research associate in the Center for Advanced Materials, has been selected to receive the 1996 Tajima Prize for young authors, awarded annually by the International Society of Electrochemistry. The award recognizes excellent scientific work in the field of electrochemistry.

Dr. Kriksunov received his M.S. and Ph.D. in Russia, and in 1989 was appointed as a research scientist at the Frumkin Institute of Electrochemistry of the Russian Academy of Sciences.

In 1992 he came to Penn State, where he works on a wide range of research in corrosion science and the development of electrochemical sensors for use under high temperatures and pressures.

The Tajima Prize will be presented to Dr. Kriksunov in 1996 at the 47th International Society of Electrochemistry meeting in Hungary.

Fayette honors doctor as outstanding alumna for 1995

Dr. Rosemary Bernadette Duda has been honored by the Penn State Fayette Campus as this year's recipient of the Outstanding Alumna/Alumna Award.

The award, established in 1985, honors former Fayette Campus students whose subsequent professional achievements warrant special recognition.

Dr. Duda graduated with a B.S. in 1976 after attending the Fayette Campus from 1972 to 1974. During her enrollment at the Fayette Campus as well as at University Park, she was the recipient of the President's Freshman Award, the Freshman Chemistry Award, the Sparks Award and the Outstanding Academic Award.

She also held memberships in the Phi Kappa Phi Honor Society and the Alpha Lambda Delta Honorary Sorority.

Dr. Duda was awarded the Joseph Goldberger Scholarship in Clinical Nutrition in 1977. She received her M.D. from The Milton S. Eisenhower Medical Center in 1980.

In 1991, she was appointed associate surgeon, chief, Division of Surgical Oncology, Beth Israel Hospital and became assistant professor of surgery at Harvard Medical School, her current location.

Substance abuse program rated among best

A community health project partnering Penn State and the Phillipsburg-Osceola area was honored recently in Washington, D.C. as one of the nation's 16 best substance abuse prevention programs.

At a ceremony on Capitol Hill, the project received a 1995 Exemplary Substance Abuse Prevention Program Award.

We worked side-by-side with caring, committed community members," said Judith Vicary, project director and an associate professor of health education and biobehavioral health. "The demonstration project is over, but the programs it generated continue in the area. The Phillipsburg-Osceola community deserves tremendous credit for coming together over this effort."

The "Rural Community Interventions Program" organized a community-wide task force and interagency coalition to assess community needs and coordinate local efforts to prevent problems associated with alcohol, tobacco and other drugs.

Working with local agencies and service providers, the project mounted an extensive educational campaign and initiated cooperative efforts and new services such as an outreach and referral network, prenatal classes and home visits.

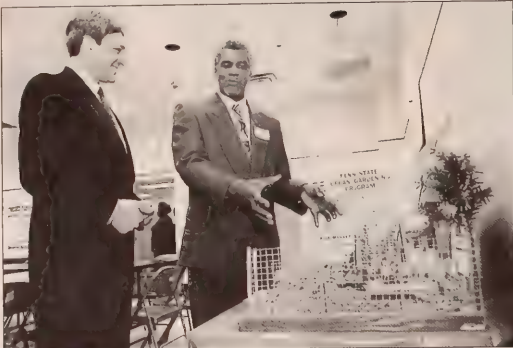
Follow-up research showed the project reduced use of alcohol, tobacco and other drugs during and after pregnancy, while increasing knowledge of problems associated with the substances. Alcohol use was also lower among women in the community who participated in the project's programs.

Others at Penn State involved in the effort were Jeff Bridger, project associate in agricultural economics and rural sociology; John Swisher, professor of education; Jordan Finklestein, professor of biobehavioral health and human development; Randall Deike, information analyst; and Al Luleff, professor of agricultural economics and rural sociology.

The project was funded by the Center for Substance Abuse Prevention, part of the Substance Abuse and Mental Health Services Administration in the U.S. Department of Health and Human Services.

Statewide tour winding down for 1995

Spanier wraps up first half of tour, hitting road again Jan. 23 with visit to McKeesport Campus



President Spanier discusses Penn State's successful Urban Gardening Program in Philadelphia with Charles Wyley, urban gardening program technical adviser.

Still going....

President Graham B. Spanier is still on the move, with trips this month to the Penn State Beaver and Shenango campuses as part of his statewide tour. Dr. Spanier visited the Beaver Campus on Dec. 1 and is at the Shenango Campus today, where he will meet with faculty, staff and students, as well as community leaders. The president will also speak to students at Farrell High School and will hold an editorial board meeting with editors and reporters at the *Sharon Herald*.

On Nov. 29, the president oversaw the ribbon-cutting ceremonies of Penn State in Philadelphia: An Urban Education Resource Center at 4601 Market St.

In addition, earlier in the day he visited the William W. Bodine Magnet High School for International Affairs and had lunch with leading Philadelphia business people.



Dr. Spanier listens as Shawn Wyley, an admissions counselor in Philadelphia, talks about recruiting.

Photos: Greg Grieco

FAST FACTS ABOUT SHENANGO CAMPUS

Founded: 1965

Service area: Mercer and Lawrence counties in Pennsylvania and Trumbull and Mahoning counties in Ohio.

CEO: Albert Skomra

Enrollment: 1,005

Employees: 140 (includes both full- and part-time employees)

Key programs: Well known for its nursing program. RNs can complete entire baccalaureate degree in nursing at the campus. Also offers associate degrees in business administration, human development and family studies, letters, arts and sciences, mechanical engineering technology, physical therapy assistance and science.

Monroeville

continued from page 1

The Monroeville Center for Continuing and Graduate Education, which currently offers master's degrees in adult education, counselor education, health education and a variety of continuing education programs, is a converted elementary school building purchased by the University in 1988 from the Gateway School District. It is within a 30-mile radius of the Penn State Beaver, New Kensington and McKeesport campuses, where some of these programs may be offered.

"Penn State remains committed to offering graduate education opportunities in the Greater Pittsburgh area," John A. Brighton, executive vice president and provost, said. He noted that graduate program offerings in the Pittsburgh area may be expanded in the future, as part of the University's five-year strategic planning process, now under way.

"It is part of the University's responsibility to continuously evaluate programs and ensure they are delivered in a cost-effective way, and to make changes as necessary," Dr. Brighton said. "We will do everything we can to be sure that currently enrolled students can complete their degrees at a nearby campus or through distance education."

Dr. Brighton has appointed a transitional team chaired by John Leathers, associate vice president for the Commonwealth Educational System, to coordinate the program and administrative transition, which will involve several academic colleges, campuses and two academic units. Team members are Patricia Book, associate vice president and associate dean for Continuing and Distance Education; Robert Finley, assistant to the vice president for Business and Operations, and John Marshall, director of field services for Continuing and Distance Education.

The transition team will work directly with the Monroeville Center faculty and staff and with the appropriate colleges and administrative units of the University to coordinate the transition phase.

Obituaries

Miriam E. Costic, residence halls hostess, Penn State Beaver Campus, from April 14, 1968, until her retirement July 1, 1980; died Oct. 26 at the age of 80.

Clark Harpster, machinist in the Applied Research Laboratory, died Nov. 7 at the Presbyterian Home of Moshannon Valley in Philipsburg at the age of 89.

Mr. Harpster, who was born Aug. 26, 1906, in Spruce Creek Valley, worked as a machinist at the University for 25 years. Before that, he was a plasterer for many years.

Arthur W. Kephart, janitorial worker-group leader, Utility, Office of Physical Plant, from Feb. 6, until his retirement July 1, 1977; died Nov. 4. He was 83.

Kenneth C. Payne, plumber/pipe fitter, The Hershey Medical Center, from Sept. 21, 1970, until his retirement Oct. 1, 1980; died Oct. 26 at the age of 72.

Maurice Symington, past chair and emeritus member of the Penn State McKeesport Campus Advisory Board, died Nov. 8. A 43-year employee and vice president of the Mine Safety Appliance Co. International, he was a 1935 graduate of Penn State with a degree in engineering and a 1937 graduate of the University of Pittsburgh School of Engineering.

Clarence M. Woodring, dining hall worker, Hershey & Food Services, from Oct. 10, 1966, until his retirement May 23, 1980. He died Nov. 4 at the age of 77.

Penn Staters

Augustin Banyaga, professor of mathematics, has been elected to the editorial board of *Afrika Matematika*, the journal of the (Pan) African Mathematical Union.

Z.T. Bieniawski, professor of mineral engineering, delivered four papers in Seoul, Korea, at the invitation of the Korean Society of Geo Engineering, Seoul National University and Hanyang Technological University. He also delivered a keynote address in Beijing, China, at the International Conference on Mining Technology.

Robert Carline, adjunct professor in the Pennsylvania Cooperative Fish and Wildlife Research Unit, has been elected vice president of the American Fisheries society for a five-year term.

Roselyn Costantino, assistant professor of Spanish at the Penn State Altoona Campus, presented "Through Their Eyes and Bodies: Mexican Women's Performance Art" at the 25th Annual International Conference of the Latin American Studies Association.

Charles Dumas, visiting professor of theatre, appeared in a one-man show based on the life of James Weldon Johnson, "Along This Way: The Life and Times of James Weldon Johnson," in the Schomburg Library and Center of African American Culture in New York City. The commissioned piece was written by Mr. Dumas for the fourth annual Johnson Awards Ceremony.

Renata Engel, assistant professor in the College of Engineering, **Morris Weinstock**, instructional programmer/analyst in Education Technology Services in the Center for Academic Computing, and **John Weldon Johnson**, director of the Center for Instructional Technology in The Small College of Business Administration, won the best paper and presentation at the sessions of the Mechanics Division during the ASME Annual Conference for their paper "Classroom Opportunities for Pipe Flow Simulations." This paper was based on their development of the *Fluid Flow Construction Set* simulation program developed as part of CAC's Faculty Technology Initiative Program.

This software is available via E-mail at ets@psu.edu.

Terry Etherton, professor of animal nutrition, spoke at the University of Adelaide in Adelaide, Australia. His lecture was titled "Suppression of Adipose Tissue Growth by Somatostatin: A Story of Transcriptional Regulation of Lipogenic Enzyme Genes."

Small College faculty member **Frank C. Evans**, assistant professor of business administration at the Penn State Shenango Campus, has been named the 1995 Outstanding Accounting Educator by the Pennsylvania Institute of Certified Public Accountants (PICPA). In its citation, the PICPA recognized Professor Evans in particular for his ability to meet the needs of non-traditional students.

Jill Findels, associate professor of agricultural economics, has been appointed to the editorial advisory board of *CHOICES* magazine for a five-year term beginning in January. *CHOICES*, a publication of the American Agricultural Economics Association, is a primary vehicle for providing dialogue and information about policy issues involving agriculture, food and resources.

Carol Gay, professor of molecular and cell biology, completed a lecture at the Royal Zoological Gardens in Melbourne, Australia. The title of her lecture was "Avian Bone Turnover and the Role of Bone Cells."

Elizabeth H. Hawthorne, associate professor of higher education and director of academic affairs at the Penn State Berks Campus, was keynote speaker at a conference titled "Symposium on Higher Education 1995," sponsored by the National Taiwan Normal University in Taipei. Her address was titled "Wandering Through the Maze of Technology: An Administrator's Journey."

Edwin Herr, Distinguished Professor of education and associate dean for academic programs and invited theme paper on "Trends in Career Guidance Theory and Practice in Response to Effects of the Social Context on Individual Behavior" at the 16th International IAEVG Congress, hosted by the Stockholm Institute of Education and the Swedish National Labor Market Board in Stockholm, Sweden. He also was re-elected to a second four-year term on the 13-member board of directors of the International Association for Educational and Vocational Guidance. He is the only member from the United States serving on the board.

Drew Hyman, professor of public policy and community systems in the Department of Agricultural Economics and Rural Sociology, has been elected chairman of the board of directors of the Scanning Certification Program (SCP) for 1995/96. The SCP is a nonprofit organization that seeks to provide standards and certification for pricing accuracy for consumers and public recognition of stores which have reached high standards in the administration of their scanning programs.

W. C. Hymer, professor of biochemistry and director of the Center for Cell Research, recently presented results of his Space Shuttle International Microgravity Laboratory-2 (IML-2) mission experiment at two international meetings. He was an invited speaker at the Japanese Space Utilization Promotion Committee in Tsukuba, Japan, where he made two presentations. He also participated in the IML-2 Investigator Working Group and Final Science Review in Frascati, Italy. His presentation was titled "Effects of Low Gravity on Pituitary Cells in Culture."

Austin J. Jaffe, the Philip H. Siegel Professor of business administration, recently gave a series of lectures in Sweden. He made presentations titled "The Never-ending Controversy About Market Value," "The Supply and Demand for Professional Real Estate Services in the United States" and "On the Role of Transaction Costs and Property Rights in Housing Markets" at the Royal Institute of Technology in Stockholm. Dr. Jaffe, a member of The Small College insurance and real estate faculty, also discussed "The Importance of Legal Institutions in Real Estate Research" at Uppsala University in Gavl.

Shahriar Jahani, assistant professor of mechanical engineering at the Penn State Altoona Campus, was awarded the Silver Award for Innovation in Engineering Technology for his paper "Penn State Electrical and Mechanical Engineering Technology Evolves to Baccalaureate Interdisciplinary Program" at the 1995 World Conference on Engineering Education.

Victoria Kazmerski, assistant professor of psychology, presented "Multiple Repetition Priming: Event-Related Potentials to Pictures and Words" at the annual meeting of the Society for Psychophysiological Research in Toronto.

Robert Killoren, director of the Office of Sponsored Programs, has received the Hartford-Nichols Award from the Society of Research Administrators. The award recognizes his service to the society and to the profession of research administration, especially his efforts in pioneering the field of electronic research administration.

Ronald S. Koot, Small College associate dean for undergraduate programs, has been selected to appear in the third edition of *Who's Who in Economics: A Biographical Dictionary of Major Economists, 1700-1994*. The selection was based on the number of times the work of a given scholar is cited in the Social Science Citation Index.

Sridhar Komarneni, professor of clay mineralogy in the Department of Agronomy and Materials Research Laboratory, has been elected Fellow of the American Society of Agronomy, the highest honor of the society.

Howard R. Lawrence, assistant professor of architecture, displayed his sculpture at an exhibition in the Silicon Graphics gallery. The exhibition included three of Mr. Lawrence's CAD-CAM (computer aided design-computer aided manufacturing) sculptures that were on exhibition in connection with Intersculpt '95.

In addition, the International Society for Electronic Arts presented Mr. Lawrence's work in a panel discussion in Montreal. Intersculpt'95 included a trans-Atlantic live connection and interaction with Paris, the "Show of Hands" sculpture and other exercises in remote sculpting.

John M. Mason Jr., professor of civil engineering and director of the Transportation Operations Program at the Pennsylvania Transportation Institute, has been named executive committee chair of the American Society of Civil Engineers' Highway Division. As chair, he will oversee the division's administrative and technical committees.

Joseph L. Rose, Paul Morrow Professor, Department of Engineering Sciences and Mechanics, was a keynote speaker at the international workshop on "Application of NDT Technology for Failure Prevention & Safety Assurance of Structures" at Pusan National University, Korea. His subject was "Ultrasonic Guided Wave Inspection Potential in the Power Generation Field."

William Rothwell, associate professor of education in the College of Education, has been named North American editor of a new journal, sponsored by the Oxford-based publisher Blackwells, titled *The International Journal of Training and Development*.

Paul Smith, associate professor of forest products marketing, has been appointed to the National Planning Committee on Forest Products Research, a joint committee of the USDA Forest Service and the National Association of Professional Forestry Schools and Colleges.

Spiro E. Stefanou, professor of agricultural economics, presented a paper titled "Nonparametric Dynamic Efficiency Measurement: A Profit Approach," co-authored with **Elvira Silva**, University of Porto (Portugal), at the Fourth European Workshop on Efficiency and Productivity Analysis at the Center for Operations Research and Econometrics (CORE), Université Catholique de Louvain, Belgium.

Private Giving

McKeesport gets gift of Eisenhower history

Four volumes of Eisenhower genealogy have been donated to the Penn State McKeesport Campus by Annabel Fisher Clinton of Mount Lebanon near Pittsburgh.

Mrs. Clinton, whose paternal grandmother was

Sarah Elizabeth Eisenhower, a fourth cousin to President Dwight D. Eisenhower, made the gift to Penn State in order to preserve the meticulously recorded data for residents of the Commonwealth.

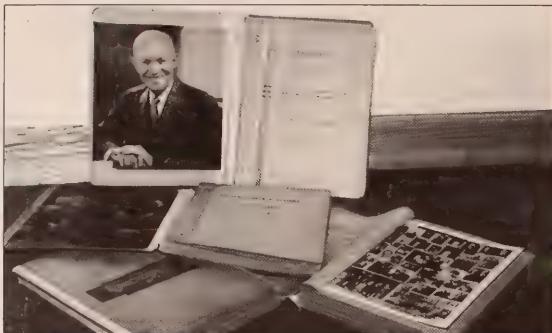
The Eisenhower family history was compiled over a period of 20 years by Fannie B. Richardson, a third cousin of Mrs. Clinton's father, Mrs. Clinton's mother.



Annabel Fisher Clinton

Richardson lacked the funds to have the genealogy published in its entirety. The four loose-leaf post bound volumes contain information that dates back to the 1741 immigration of Hans Nicholas Eisenhower. In 1954, Mrs. Fisher estimated that her collection contained reference to at least 8,000 Eisenhower descendants, about 2,500 of which are family heads.

The collection also contains hand-written notes from Mrs. Clinton's father and photographs.



Special gift

Annabel Fisher Clinton, a relative of the late Dwight D. Eisenhower, has given the McKeesport Campus four volumes of Eisenhower genealogy. The family history was compiled by another relative, Fannie B. Richardson.

HealthAmerica endows health policy fellowship in Harrisburg

Penn State Harrisburg's decade-old and rapidly growing master of public administration program with a health care management concentration has received an endowment from HealthAmerica.

HealthAmerica, one of the nation's managed health care organizations, has awarded a graduate fellowship in health care policy to Penn State Harrisburg. The HealthAmerica Fellowship will pay the tuition of a graduate student in the program.

The MPA with a health care management concentration was first offered a decade ago beginning with a dozen students. Due to student interest in health care systems and management along with sensitivity to health care reform at the state and national level, the program has rapidly grown to include more than 90 students. The program is headed by James T. Ziegenfuss.

Among the reasons for the increase in

interest in the health care management academic track are: public concern over limited access to care, insurance benefit design and managed care, cost containment, quality assessment and improvement, need for integrated delivery systems, hospital merger and acquisition and entrepreneurial activity.

In announcing the fellowship, F.G. "Chip" Merkel, CEO of HealthAmerica of Pennsylvania and an alumnus of Penn State, said "As a leader in the health care industry, HealthAmerica is committed to being a positive corporate role model in the community."

"Managed care organizations have a responsibility to the community, not only to assure quality, cost-effective health care, but to help the community address societal issues which adversely impact their health. HealthAmerica views the fellowship to the University as one way to ensure the future good health of the citizens of our communities."

Hewlett-Packard donates \$650,000 worth of software

The Hewlett-Packard Co. has donated software valued at \$650,000 to the College of Engineering.

The company donated four computer-aided engineering software programs that will be used in senior-level engineering courses that focus on microwave-high frequency-amplifier and filter design. Plans are under way to include the software in a course on wireless communications.

According to Lynn Carpenter, associate professor of electrical engineering, students will use the software "to simulate, or make electrical approximations of, microwave filter and amplifier circuits. They will design and oversee fabrication of these circuits and

then measure their operations to make sure they work properly."

The student-designed microwave amplifier circuits will increase signal transmitters in radar, pagers, satellites and cellular phones. The microwave filters designed and constructed will find the desired signals for these devices more efficiently.

California-based Hewlett-Packard, the second-largest computer company in the United States, designs, manufactures and services electronic products and systems for measurement, computation and communications. It aims to create information products that accelerate the advancement of knowledge and improve the effectiveness of people and organizations.

Athletes should take warnings about nutrition with a grain of salt

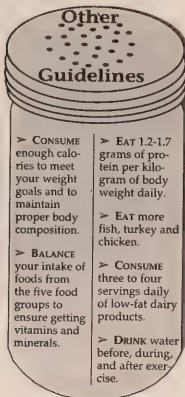
Many athletes may need to go on the defensive against the constant bombardment of nutritional messages aimed at the general public, according to an article in the *Penn State Sports Medicine Newsletter*.

The article focuses on an address made by Penn State's Kristine L. Clark at the Third International Olympic Committee World Congress on Sports Sciences. Dr. Clark is director of sports nutrition with the Center for Sports Medicine, which publishes the newsletter monthly.

"Athletes, particularly elite athletes, are very vulnerable and have to be constantly on guard about the information they receive," Dr. Clark said at the Clark event. "Information that applies to the general public does not necessarily apply to them."

"I can think of three messages having implications for certain populations or even the general population that may not be applicable to athletes: 1) reduce the intake of saturated fats; 2) avoid sodium; and 3) avoid sugar."

Dr. Clark reports seeing a tremendous decrease in athletes' interest in eating red meat, partly because it is such a rich source of saturated fat. However, she contends that, consumed two or three times a week, red meat is nutritious



and that any reduction in red meat intake also reduces dietary iron, zinc, selenium, and riboflavin, among other nutrients.

Athletes may also go overboard cutting back on foods containing vegetable fats that are necessary for a healthy diet.

Dr. Clark advises that fat consumption should meet 20 percent to 30 percent of total calories, depending on the sport and individual considerations.

Sodium, meanwhile, is a critical electrolyte lost in perspiration and there appears to be little, if any, risk involved in including sodium as part of a regular diet. Dr. Clark wants athletes to replace lost sodium because it is essential for absorbing water, stimulating thirst and maintaining a balance of fluids.

Finally, the reason to keep some sugar in an athlete's diet is that sugars are carbohydrates and a general rule of thumb is to have 55 percent to 65 percent of total calories coming from carbohydrates — both simple and complex. As the main nutrient for muscle activity, carbohydrates can benefit performance.

Sports nutritionists typically advise athletes to avoid refined sugars in foods that contain no vitamins and minerals, but do not tell them to avoid sugar altogether.

— Gary W. Cramer



The printed word is preferred

A recent survey suggests that people greatly prefer the printed word to computers for learning hard-boiled facts about food safety.

In fact, computers ranked dead last among six choices as a preferred method of providing information about food poisoning from salmonella, said Ann Fisher, senior research associate in the Department of Agricultural Economics and Rural Sociology.

Dr. Fisher is co-author of the paper, "Evaluating Alternatives for Communicating About Food Risk," which appeared in the *Journal of Applied Communications*.

Her co-authors are Robert King, former graduate student with the department of agricultural and extension education; Donald J. Epp, professor of agricultural economics and rural sociology; Lynn Brown, associate professor of food science; and Audrey N. Maretzki, professor of food science.

Female reproductive disorder may also afflict males

Polycystic ovary syndrome (PCOS), a common female reproductive disorder that frequently contributes to diabetes, may have a male counterpart.

Endocrinologist Dr. Andrea Dunaif and her co-workers at The Milton S. Hershey Medical Center have been studying families in which several members have various features of PCOS. It is characterized by high testosterone levels, menstrual problems, insulin resistance and a higher-than-normal risk for diabetes.

"We're finding a high proportion of family members with abnormalities, by just identifying one family member," Dr. Dunaif, professor of medicine and cellular and molecular physiology and head of the section of diabetes and metabolism, said. "We found that other women in the family can have insulin resistance, for example, and some hormonal abnormalities, such as male hormone elevations, without having all of the syndrome."

"We're finding a very high frequency among sisters," she said. "Some have several symptoms, and others have only mild abnormalities. We're interested in finding out what's going on with the brothers."

Dr. Dunaif thinks that a male version of PCOS may involve insulin resistance, which heightens the risk of diabetes, and probably coronary artery disease and hypertension as well.

Dr. Dunaif hopes to understand the genetics underlying the disease. Researchers aren't certain, for example, what causes the insulin resistance. In about 50 percent of the women with PCOS, she said, there's a specific biochemical defect in the way the insulin acts on cells. Recently, in the *Journal of Clinical Investigation*, Dr. Dunaif and her co-workers showed evidence suggesting that an enzyme is malfunctioning, turning off the insulin signal in the cell.

"It's the first identifiable common abnormality in patients at risk for diabetes," she said.

"Women can just have male hormone elevations and none of the other symptoms — that's what we're finding in some family members," she said. "It may mean that the male hormone elevation is due to one gene and the insulin resistance is another



Andrea Dunaif

gene. Only if you get the two together do you get the whole syndrome."

"Our goals are to find which characteristics are familial, and then to find the gene or genes that cause them. The question is, are they associated or separate genetic traits, and are they all caused by a single underlying defect?"

Dr. Dunaif said a few candidate genes are known. One may be for an enzyme that causes the insulin receptor to signal incorrectly.

"This isn't trivial because a disease such as adult onset diabetes involves a number of genes. Once we find out who has the PCOS-type of insulin resistance versus other types of resistance, then we can do linkage studies. Very soon the markers identified by the (federal government's) Human Genome Project will allow us to screen every chromosome in detail."

"Depending on what the gene codes for, there might be ways of correcting a biochemical defect."

The researchers are trying to isolate the factor, which they think is an enzyme, that is causing insulin resistance in PCOS. There may be drugs that inhibit the activity of such enzymes, which could be a promising therapy for that form of diabetes.

"Our goals are to find the genetic cause of insulin resistance in women with PCOS as well as the genetic cause of the syndrome. There's a chance they might be the same thing."

— Steven J. Benowitz

ATHLETICS

A regular column provided by Intercollegiate Athletics

Most Valuable Player

Big Ten coaches selected the Lady Lions' **Jen Coletta** as the conference's most valuable player. **Sonje Voila** was the Big Ten "Freshman-of-the-Year." Ms. Voila, **Meghann Spratt** and **Shelly Meister** were second team All-Conference choices.

Coaches vs. Cancer

Penn State basketball coaches **Rene Portland** and **Jerry Dunn** are participating in the Sy Barash Three-Point Attack, which is part of the national Coaches vs. Cancer campaign. The program is a partnership between the National Basketball Coaches Association and the American Cancer Society. Individuals and businesses will make pledges for each three-point shot made by the Nittany Lions and Lady Lions during 1995-96. Funds from the program will be used in the Cancer Society's fight against the disease in Pennsylvania.

No. 1 rankings

College Sports magazine has picked Penn State as the preseason No. 1 in men's and women's fencing. The Lions are the defending NCAA champions.

Milestone

The Lady Lion soccer team, which was 15-6-1 during the regular season, earned its first-ever invitation to the NCAA Tournament. Sophomore forward **Rachel Hoffman** was named first-team All-Conference.

Basketball luncheons

Penn State's men's basketball club will sponsor luncheons with **Coach Jerry Dunn** on Dec. 14, Jan. 25, Feb. 20 and March 7 at the Nittany Lion Inn, beginning at noon. The cost of the luncheons is \$7 for current members and \$8 for non-members.

Basketball tickets

There's still time to arrange for your men's and women's basketball tickets in advance of the opening of the new Bryce Jordan Center on Thursday, Jan. 11, for the men vs. Minnesota and Saturday, Jan. 20, for the women vs. Georgia. Call the Penn State ticket office at (814) 863-1000 for information and an application.

For the Record

President **Graham B. Spanier** visited the Penn State Beaver Campus on Dec. 1. A story in the Nov. 30 *Intercom* listed an incorrect date of the visit.



Look at that!

Tessa Ryland gets a boost from neighbor **Steve Mastroski**, associate professor of administration of justice, as she admires a tree at the Festival of Trees. The event, held at the Agricultural Arena on the University Park Campus, featured more than 100 trees, and was made possible because of the efforts of hundreds of volunteers, the Penn State Forestry Service and the Horticulture Club.

Photo: Greg Griedo

Update on "The Plan for the Planning"

It has been almost two months since President **Graham B. Spanier** and **Robert E. Dunham**, senior vice president and dean of CES, introduced "The Plan for the Planning."

In that short time, the CES locations have been busy holding town meetings, meeting with school superintendents, prospective students and their parents, sending questionnaires to various groups and involving the community at large in the process of discovering the best road for each location to take to better serve their communities and the University.

By January, tentative recommendations with the pros

and cons listed for each option proposed should be submitted by each CES location to Dr. Dunham.

In addition, most locations have targeted holiday break as a deadline for a rough draft of the five-year strategic plans that will be presented in final form to the University Planning Council in January 1997.

To keep informed and up-to-date on the process, visit the Office of University Relations home page on the Web at URL <http://www.pubinfo.oud.psu.edu/> for the latest letter from Dr. Dunham, or E-mail Dr. Dunham directly at red1@psu.edu.



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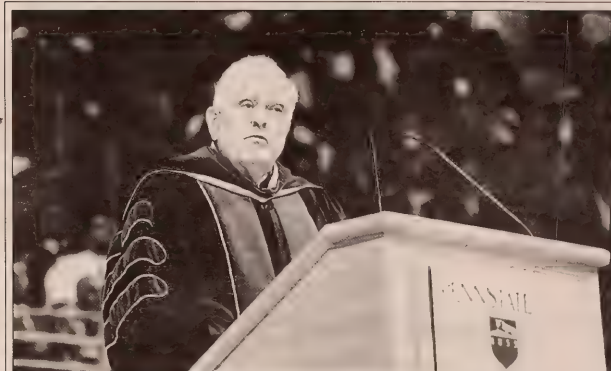
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Milestone

Former University President Bryce Jordan addressed some of the roughly 3,426 students who graduated at University Park Saturday, Jan. 6. The commencement exercises, held in the Bryce Jordan Academic and Athletic Convocation Center, marked the official opening of the new center. Many more events will follow later this month. For more photos of winter commencement, please see page 11.

Photo: Greg Gneoc

Continuous care facility feasibility being explored

Penn State has taken a first step toward developing a retirement facility that would use the unique programs, services and facilities of the University, including The Hershey Medical Center, the College of Health and Human Development and the Alumni Association.

President Graham B. Spanier created a six-member committee to develop a request for proposals for the development of a continuous care retirement facility, on or near University property.

Continuous care retirement facilities (CCRFs) generally provide housing for retirees who live independently, continuous care for those who can no longer care for themselves and various levels of care in between. Penn State is exploring the development and operation of a CCRF because it believes the

See "Care" on page 5

CES proposal deadline nears

As the mid-January deadline approaches for 20 Penn State locations to submit their preliminary recommendations outlining their future, the finishing touches are being put on documents that should begin to spell out how each location can better serve its students and the community.

Recommendations — which could turn the gamut from continuing present missions to consolidating with other neighboring Penn State locations or with other institutions — are due by Jan. 18 from all of the 18 campuses within the Commonwealth Educational System and from Penn State Erie, The Behrend College and Penn State Harrisburg. The recommendations are the result of a self-study undertaken by the campuses over the last three months.

Not considered a final product, the recommendations will be reviewed by Robert E. Dunham, senior vice presi-

See "Options" on page 5

HUB/Robeson expansion project to centralize student activity space

It was an army surplus building relocated to the University Park Campus in 1942 as a temporary student union building, and has been scheduled for demolition at least twice.

Now, with money from the new student activity fee, funds raised by the University and the hearty endorsement of President Graham B. Spanier, the temporary facility that served the University Park Campus far longer than anyone had ever imagined will finally be retired. Its current tenant, the Paul Robeson Cultural Center, will

move into a new building to be connected to the Hetzel Union Building (HUB).

The change is part of the HUB/Robeson expansion project, now under way with the selection of Williams Trebilcock Whitehead of Pittsburgh as the architect. Ideally, the University hopes to break ground in the spring of 1997, with an opening in the fall of 1999.

The expansion is greatly needed. "As you might imagine, the HUB is crowded between 10 a.m. and 2 p.m.

or so. Then in the evening, there's literally no place to sit over there. So that alone, plus the ongoing traffic 24 hours a day during finals study period, demonstrates the need for this expansion," William Asbury, vice president for student affairs, said.

In addition, the Paul Robeson Cultural Center needs a facility large enough and modern enough to serve the people who use it.

"Both of these are facilities that are

See "Expansion" on page 4

Robeson exhibit

Grace Hampton, left, and Lawrence Young, director of the Paul Robeson Cultural Center, examine a mask from the "Africa and the Diaspora: Personal Collections" exhibit opening Jan. 14. For details, please see story on page 8.



Research

Elizabeth Bradford Smith, associate professor of art history, has researched medieval art collecting patterns in America. Her work has resulted in an exhibition at the Palmer Museum. Please see story on page 15.



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Inside

DIVERSITY

Three win diversity achievement award for 1995

Blannie Bowen, C. Lee Rumberger and Family professor of agriculture; **Cathy Bowen**, assistant professor of agricultural and extension education; and **Mary Laeger-Hagemister**, extension agent in Dauphin County, have received the College of Agricultural Sciences 1995 Diversity Achievement Award. The award recognizes faculty and staff committed to fostering an environment in which diversity is understood, valued and promoted and who demonstrate leadership in the elimination of discrimination.

For the past two years, the Bowens have worked together to sponsor the Food and Agricultural Sciences Summer Workshops for academically talented high school minority students. The weeklong workshop attracts students from across the state to explore such subjects as landscape contracting, food

science, dairy nutrition and horticulture.

Blannie Bowen holds professional development workshops for minority faculty and students every year and has served on the advisory board for the Center for Minority Graduate Opportunities and Faculty Development. He has been a senior faculty mentor in the Office for Minority Faculty Development and his research centers on the contributions of African Americans to the food and agricultural sciences. He has published numerous articles on the role of minorities in agriculture and has invited minority scholars in residence to Penn State for collaborative research on that topic.

Cathy Bowen has been co-advisor of Sigma Alpha Sorority, a professional organization for women in agriculture, and has served as a mentor for minority students in the Penn-

sylvania Governor's School for the Agricultural Sciences. She also has served on the college's Committee on Diverse Audience and currently is a member of the University's Equal Opportunity Planning Committee and the college's Diversity Advisory Committee. In addition, she has edited the newsletter of the National Coalition for Black Development in Home Economics and served on the Minority Network Committee in the Pennsylvania Association of Extension Home Economists. Dr. Bowen was responsible for developing the college's first extension publications in Spanish available for statewide distribution.

Ms. Laeger-Hagemister has worked on addressing the needs of Dauphin County's diverse population. She helped change the membership of the county's Family Living Advisory Committee to reflect the

county's diverse ethnic mix, and helped start the Building Strong Families Conference, now in its fifth year. The conference brings together agencies from a two-county area to share ideas, resources and programs.

Another program she helped start, Parents and Their Children At Home (PATCH), is an integrated parenting skills project focusing on incarcerated parents in the Dauphin County Prison.

She also helped develop Life Is Nurturing Kids (LINK) in which white and African American volunteer mentors are trained to act as confidence builders and positive role models for children. Another program she developed, KIDS (Kids Involved in Discovering Self) Are the Key, began in July.

This preventative project is aimed at increasing the self-esteem of juvenile offenders ages 8 to 13.

Diversity Briefs

Applications due

Applications for the UNCF-Merck Science Fellowships targeted to African American graduate and undergraduate students are now available through the registrar's office. Application deadline is Feb. 26.

The fellowships, part of a 10-year initiative to expand America's pool of world-class African American biomedical scientists, are funded with \$20 million from Merck & Co. Inc. and administered by The College Fund/UNCF. In 1996, 15 undergraduate scholarships will be awarded to students who expect to graduate in 1997. Each scholarship award includes:

- Tuition scholarship of up to \$15,000.
- Two Merck summer internship stipends totaling \$10,000.
- Institution grant of up to \$10,000.

In addition, 12 graduate fellowships, covering a minimum of 12 months up to a maximum of 24 months of graduate study, will be awarded. Each fellowship includes:

- Fellowship stipend of up to \$25,000.
- Institutional grant of up to \$15,000.

Ten Postdoctoral Science Research Fellowships will also be given. Each fellowship covers a minimum of 12 months up to a maximum of 24 months and includes:

- Fellowship stipend of up to \$40,000.
- Institutional grant of up to \$15,000.

Merck & Co. Inc. is a research-driven pharmaceutical products and services company. The College Fund/UNCF is a consortium of 41 private, historically black colleges and universities which currently administers more than 350 educational programs that give students access to higher education and career opportunity.

High marks

Penn State has been named as a "Highly Recommended" university for Hispanic students by *The Hispanic Outlook in Higher Education* magazine.

In the Nov. 24, 1995 issue of the magazine, Penn State is one of only two Pennsylvania universities named to this first-time list.

According to *Hispanic Outlook* publisher Jose Lopez-Isa, Penn State has outstanding academic programs for Hispanic students, such as the "S" Plan: Support, Survival and Success for African American and Latino Students New to Penn State, Hispanics for Academic Progress and the Multicultural Resource Center.

In creating the list, Mr. Lopez-Isa researched more than 2,500 institutions looking for services and programs designed to help Hispanics succeed. He reviewed financial aid, scholarships, remedial programs, ESL (English as a Second Language), tutoring, mentoring, Hispanic campus organizations and Hispanic faculty and administrators at the various institutions.

The listings ranged from "highly recommended" to "recommended."

Network seeks members

The Lesbian, Gay & Bisexual Support Network, now entering its second year of existence, is looking for participants of all sexual orientations and in all roles within the University who can provide support and information to lesbian, gay and bisexual members of the Penn State community.

For example, the network provides a means by which a student or colleague can tell someone that she is lesbian and receive support and confidentiality. By displaying the network symbol, a member is saying, "Knock on my door. It is safe to talk."

The network consists of faculty, staff and students who are willing to make a personal, voluntary commitment of support to lesbian, gay and bisexual people on campus.

To participate in the network, available to faculty, staff and students at all Penn State campuses, fill out an application from the Office of the Vice Provost for Educational Equity, 311 Grange Building, University Park, Pa. 16802. The Commission on Lesbian, Gay & Bisexual Equity will review applications and notify individuals about their membership.

Nominations, please

The nomination deadline for the Rosemary Schraier Mentor Award, established by the Commission for Women, is rapidly approaching. Anyone wishing to nominate a University employee who exemplifies the caring and mentoring attitude displayed by Rosemary Schraier, a former faculty member in the Berry College of Science and associate provost of the University from 1981-1985, should submit a nomination form by Jan. 18 to Ingrid Blood, 311 Grange Building, University Park, Pa. 16802. Dr. Schraier, who became the first woman chancellor in the University of California system in 1987, died April 10, 1992.

Information and nomination forms can be obtained by calling the Commission for Women office at (814) 865-1663.

Speakers Bureau forms

New at Penn State this year is a Speakers Bureau of faculty and staff who have expressed an interest in speaking to school and community groups about the history and legacy of Dr. Martin Luther King and African-American history in general. The speakers will be available during Black History Month in February. Contact the Department of Public Information at (814) 865-7517 for assistance.

New reading, discussion group

Maureen E. Worthington, women's studies instructor at the Worthington-Scranton Campus, has announced the formation of "Reading Women's Issues," a reading and discussion group which will explore issues that impact women and all members of society.

Each month, participants will read and discuss a novel which addresses a specific woman's issue and hear an expert speak on the topic.

The group's first discussion focused on "The Treatment of Domestic Violence Victims in the Court." Featured speakers were attorney Amy Shwed and Janet McKay of the Tunkhannock Victims Resource Center.

DIVERSITY

Many events to honor Martin Luther King Jr.

Penn State and area communities are celebrating Martin Luther King Jr. Day on Monday, Jan. 15, with special events throughout next week and a yearlong commitment to service. The events follow:

■ **Allentown:** Noon Monday, Jan. 15, the film "Martin Luther King Jr.: A Man of Peace" will be shown. Allentown students faculty and staff will also present readings reflective of Dr. King after the film.

■ **Altoona:** L. Douglas Wilder, the first elected African-American governor in the country, will speak on "Social and Political Changes of the 1990s," at 3:30 p.m. Sunday, Jan. 14.

■ **Berks:** The African American Drama Company will perform "Can I Speak for You, Brother?" at 1 p.m. Friday, Jan. 19, in the Perkins Student Center Theatre.

■ **Delaware County:** Monday, Jan. 15 at 12:30 p.m. — "Celebrate!" personal commentaries, candlelight ceremony and music by the Campus Choir; Tuesday, Jan. 16 at 11:30 a.m. — "Act," community service project and "Learn" Wednesday, Jan. 17, 2:30 p.m., Edith Bagley of Cheyney University and sister of Coretta Scott King will speak.

■ **Penn State Erie, The Behrend College:** The Hon. Alan Page, justice on the Minnesota Supreme Court and member of the NFL Hall of Fame will speak at 7:30 p.m. Monday, Jan. 14. The campuswide celebration "Voices of a Dream" includes "Power of One," movie and discussion, at 9:30 p.m. Sunday, Jan. 14; a Family Breakfast for the college community at 7:30 a.m. Monday, Jan. 15; a 7 p.m. gospel choir concert on Tuesday, Jan. 16; and a performance by the African American Drama Company on Wednesday, Jan. 17.

■ **McKeesport:** Neal Huguley, executive director of the "I Dream A World" Foundation of Pittsburgh, will speak on "Dream to Reality" at 1:30 p.m. Sunday, Jan. 16.

■ **Mont Alto:** Laverna Fountain, executive director of the Pennsylvania Compact, will speak at 8 p.m. Monday, Jan. 15. A candlelight vigil and commemorative march will precede the speech at 7:45 p.m. Also featured around campus: King Commemorative Library Exhibit through January, and black history educational prints in the Conklin Student Union and the Food Court the week of Jan. 15.

■ **Schuylkill:** Performance artist Teja Arbolada celebrates his identity in "Ethnic Man" at 7:30 p.m. Monday, Jan. 15.

■ **University Park:** There will be a free presentation of "We Are the Dream" at 7:30 p.m. Monday, Jan. 15 in Eisenhower Auditorium. The doors will open at 6:30 p.m. Free parking is available in the Eisenhower and HUB parking decks.

Written and directed by visiting professor of theatre arts Chris Dumas, the dramatic presentation

Interest house encourages use of King's ideals

When Kyndra Berryman started her freshman year, she soon realized that sharing living space would be more complicated than swapping sweaters and class notes. "I wanted to be part of a dorm that had a community-like environment," Ms. Berryman said. "It was important for me to be living among people with similar interests and ideals."

Finding compatible roommates and floormates on a large campus can be a daunting task, but Penn State's system of 14 interest houses makes it easier for like-minded students to find each other.

This system has paved the way for a group of 30 students with a shared interest in the teachings of Martin Luther King Jr. to live together.

The King Interest House on the sixth floor of Beaver Hall on the University Park Campus was "designed to create a place where students can live together and demonstrate their commitment to the ideas Martin Luther King Jr. lived and died for," said James Stewart, vice provost for educational equity. He and Lawrence Young, director of the Paul Robeson Cultural Center, established the interest house in 1985.

Mr. Young and Dr. Stewart envisioned the King House as a place where students experience equality through example and explore ways to achieve a more just society through nonviolence and tolerance — the major themes advocated by Martin Luther King Jr.

"The house has developed a real sense of community and sharing," Lillie Wiley, supervisor of the interest house and services assistants, said. "Residents are interested in social issues and social justice at Penn State and in the greater community."

Students are encouraged to follow and learn from Dr. King's examples of problem solving. As a minister in Montgomery, Ala., Dr. King chose to confront what, at the time, seemed to be an insurmountable situation for African Americans — segregation, Jim Crow laws and

denial of the right to vote.

By combining his own religious beliefs and the nonviolent, direct-action philosophy of Mohandas Gandhi, Dr. King was able to think and analyze the full spectrum of the problem and, working with the rest of the civil rights movement, effect a change that still reverberates today.

Students participate in seminars and diversity programs, including special events like the annual candlelight vigil and walk on Martin Luther King Jr.'s birthday. This year, interest house members are co-sponsoring the King Birthday Celebration Brunch set for 11 a.m. Sunday, Jan. 14, at Bravo Bistro in the Findlay/Johnson Dining Commons.

"We attend movies together like the 'Shawshank Redemption' and 'Higher Learning,'" Ms. Berryman, residence assistant and house member, said. "The events we attend often lead to discussions and debates among members."

The group recently visited the Holocaust Museum in Washington, D.C. which led to thought-provoking discussions on hate and destruction, and this spring they plan to visit the Martin Luther King Center for Social Change in Atlanta.

"Residents must be committed to learning about and discussing issues like voter participation and economic parity," Terrell Jones, faculty adviser to the house, said. "And each semester house members set down educational, cultural and social goals and programs."

House members are also responsible for recruiting new members to continue a multicultural, diverse population.

The Martin Luther King Jr. Interest House works to incorporate Dr. King's ideals into a day-to-day living environment that reflects what America can be if it fully commits to his dream.

— Nancy Williams

incorporates music, dance and theatre to trace the African American struggle for freedom.

Other campus and community events celebrating Martin Luther King Jr. this year at University Park include the following.

■ **Monday, Jan. 8** from 1 to 4 p.m.: The AT&T Center for Service Leadership is having an open house in 101 HUB to highlight information about programs and services of the center.

■ **Saturday, Jan. 13**, through Monday, Jan. 22: "Ten Days for Peace," sponsored by the Office of Residential Life. A series of events featuring speakers and films, including Spike Lee's "School Daze" on Jan. 13 and 14; a Martin Luther King Jr. branch in the residence halls on Sunday, Jan. 14; a presentation by Floyd Cochran, former leader of the Aryan Nation, on Jan. 17; and "Schindler's List" on Jan. 19 and 20.

■ **Monday, Jan. 14:** The Martin Luther King Jr. Interest House will sponsor a breakfast and march from Beam Residence Hall. Contact Terrell Jones, faculty adviser, at 865-5906.

■ **Sunday, Jan. 14**, through Feb. 23: The exhibit, "Africa and the Diaspora: Personal Collections" African, African-American, Haitian and Brazilian art and artifacts from the collec-

tions of Penn State faculty and staff at the Paul Robeson Cultural Center.

■ **Sunday, Jan. 14:** Forum on Black Affairs annual banquet, "Voices of the Dream," will be held at The Penn State Scanticon at 5:30 p.m. This year's program features music by several campus and community groups in celebration of Dr. King. Please contact Nancy Williams at 865-7517 for ticket information. Fleet Operations is sponsoring a free bus from the HUB to the Scanticon leaving at 4:30 and 4:45 p.m., returning after the presentations at about 9 or 9:30 p.m.

■ **Monday, Jan. 15:** The Paul Robeson Cultural Center will feature a continuous multi-media presentation on Dr. King, including audio tapes of his sermons and speeches, video tapes of his life and legacy, an examination of his assassination and a dramatization of an encounter with Malcolm X. For details about these presentations, contact the center at 865-1770.

■ **7:30 p.m. Monday, Jan. 15:** A dramatic presentation "We Are the Dream" includes poetry, music, dance and theatre to trace the African-American struggle for freedom.

■ **Monday, Jan. 15** to Friday, Jan. 19: Bellefonte School District Senior Institute presentations to elementary

students.

■ **Monday, Jan. 15**, to Saturday, Jan. 20: An exhibition in tribute to Dr. King by MANRA, the Minorities in Agriculture and Natural Resources Association, in the lobby of the Agriculture Administration Building.

■ **Monday, Jan. 15**, to Saturday, Jan. 20: Discounts on selected flavors of ice cream cones, sponsored by the College of Agricultural Sciences MANRA and the Department of Food Science.

■ **Monday, Jan. 15**, to Saturday, Jan. 20: A special exhibit in the main lobby of Pattee Library.

■ **Tuesday, Jan. 16**, from 11 a.m. to 3 p.m.: Volunteer Fair in the HUB Fishbowl.

■ **Wednesday, Jan. 17**, from noon to 6 p.m.: Student Involvement Fair, HUB Ballroom and Fishbowl.

■ **Wednesday, Jan. 17**, from 6:30 p.m. to 9 p.m.: Community Volunteer Fair, State College High School South Cafeteria.

■ **Worthington Scranton:** The campus will celebrate with a library display through the week, cultural diversity speech contest on Wednesday, Jan. 17, and the play "Can I Speak for You, Brother?" performed by the African American Drama Company on Thursday, Jan. 18.

Expansion

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heavily used by students and have a very strong student focus. They're both places where a number of student activities occur, and both of them have a very strong need for expansion," Lawrence Young, director of the Paul Robeson Cultural Center, said.

"The HUB, for a University this size, is grossly inadequate in terms of the number of square feet of space per student. The Paul Robeson Cultural Center is operating in a facility that was built in the 1940s and was not designed for what's being done there. So the focus of the project is on the combined need, with the idea that the activities that take place in the two buildings would complement each other," he said.

According to *College Unions: Fifty Facts*, the Council for the Advancement of Standards for Student Services recommends approximately 10 square feet of student union space for each full-time student. By that measure, the HUB lacks 160,000 square feet.

The University has been busy behind the scenes raising \$3.6 million from private donations to combine with \$2 million in University money for the project. A portion of that \$3.6 million came from corporate sponsors including Pepsi and Barnes and Noble, as well as from the Alumni Association. There will be no state funding for the project, because the state doesn't fund buildings that have traditionally been built using student fees.

"There is this concern that often student unions are turned into commercial enterprises by allowing commercial franchises to come in. The legislators think that's improper use of state funds," Mr. Asbury said.

Beginning this summer, the University will enact a \$25 student activity fee on all students. A portion of the fees collected at the University Park Campus will go toward the expansion project to make up for the lack of state funding.

"We discussed the possibility of some kind of fee as an option early on in the planning process because fees are generally used to construct stu-



Current view

The Hetzel Union Building expansion will be built onto the back face of the HUB. The expansion project also includes a new building for the Paul Robeson Cultural Center, which will more than likely be connected to the HUB near the back corner pictured here.

Photo: Greg Gneco

dent unions, but we deferred the recommendation until state funding was no longer an option," Craig Millar, associate vice president for student affairs, said.

Part of the existing student union was funded by a student union fee. In the 1940s, undergraduate leaders suggested the College levy a special assessment on each student to underwrite the cost of a union building. Initial reaction was negative, but once it became obvious that a majority of students wanted a union building, the trustees approved the special levy. Groundbreaking took place in January 1953, and the building named in honor of former President Ralph D. Hetzel was dedicated on Penn State's 100th birthday, Feb. 22, 1955.

Similarly, some students have reacted negatively to the activity fee that will contribute to this expansion project, suggesting the cost benefit is not there, especially to students attending during the summer.

"The use of the facility will continue during the summer, and so the amortization of the building should be spread among all those who might use the facility," Mr. Asbury said.

"The students are concerned — and rightfully so — that a large portion of the fee from University Park is

going toward construction of this building. But the majority who expressed that opinion, including the student leaders, have said that this new construction will add value to their education and they're willing to support it."

Combining a new building for the Paul Robeson Cultural Center with the HUB expansion project makes sense for several reasons.

"The center as it stands now is an isolated entity and that fosters that this is just for blacks or minority cultures," Warren B. Coleman, retired assistant professor of physical education and first director of the Paul Robeson Cultural Center, said. "By bringing it into the mainstream by joining it with the HUB, it would have a greater appealing facility to the community at large."

The similar roles and missions for the two centers were also among the driving forces for combining them, Dr. Millar said.

"In our planning, we believed we needed both a better community center and a better facility for minority cultures, and we can do it better

if we do it together," he said.

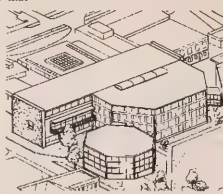
Relocating the cultural center will potentially increase its visibility to the campus community and visitors to the University as well.

"I visualize more and different kinds of people coming together and using a very attractive new facility closer to downtown and the campus center, and nearer to where 20,000 to 30,000 people a day come on to this campus. I think we'll see more traffic, more community programs, more of a sense of there being one place where everybody in this community comes together," Dr. Millar said.

Mr. Asbury sees the bridging of the two centers as promoting better integration of their uses. He said the design will encourage student involvement in the activities of the cultural center.

"Many in the general student population don't participate in the activities in the Paul Robeson Cultural Center because they think that somehow it is exclusively for minority groups, and it is not," Mr. Asbury said. "This design will clearly demonstrate that the cultural center is part of the mainstream activities of this campus. I think that's what people like about the philosophy, the principle upon which this design was based. Whether it ends up looking exactly like the sketch is not so important as the concept of the two being together while maintaining their own identities."

— Annemarie Mountz



Connected but distinct

In this conceptual perspective, the new Paul Robeson Cultural Center stands as an octagon; the HUB expansion extends from the familiar glass face overlooking the lawn. At upper right is the Ballroom addition.



The end is near

The current home of the Paul Robeson Cultural Center will be dismantled once the center's new home adjacent to the Hetzel Union Building is completed.

Photo: Greg Gneco

Who was Paul Robeson?

The man for whom the cultural center is named — Paul Robeson (1898-1976) — is considered by many to have been the most brilliant figure of his time.

The son of a former slave, Mr. Robeson was born on April 9 in Princeton, N.J. He won a scholarship to Rutgers University, where he was elected to Phi Beta Kappa and was valedictorian of his class.

He also achieved All-American honors in football and excelled in baseball, basketball and track. After graduation, Mr. Robeson earned a law degree from Columbia.

But it was in the theatre as an actor and singer that Mr. Robeson made his mark on the world. Refusing to be satisfied with personal wealth and fame, Mr. Robeson became a fearless advocate for the civil rights of his fellow African Americans and for the human rights of all the world's peoples.

Throughout his life, he fought for racial equality and worldwide human understanding.

— From *Reflections*, the Paul Robeson Cultural Center newsletter.

Options

continued from page 1

dent and dean of CES, and will later be scrutinized by senior administrators, President **Graham B. Spanier**, the University Planning Council, deans and a special committee of the University Faculty Senate before being returned to the campuses for further review and discussion. The reviews are necessary, in part, to ensure that other areas of the University will not be adversely affected by changes at particular locations. No additional state funding is expected to be available to invest in new programs to support a change in mission to campuses. But at least one University location they select based on increased tuition from enrollment increases or internal reallocation of funds.

"This process is of historic importance for the future of our Commonwealth," **Donald Gogniat**, CEO of the Penn State York Campus, said. "I don't think there's been one committee put in place... that's going to have more of an impact on education in Pennsylvania than the committee that will review these documents. We (Penn State) affect literally tens of thousands of people."

In an effort to better meet the needs of those Pennsylvanians, campuses were asked in October to take a close look at their operations. The self-evaluation is being done because of changing demographics across the state. While the makeup of the state's population, work force and college-bound students has changed dramatically, the structure and mission of CES has remained virtually unchanged for decades.

The three-month process has taken many forms at each of the campuses and has involved everyone from local business leaders and local government officials to parents and friends; from faculty, staff, students and alumni to presidents of nearby institutions.

"For our community, this process has been very participatory and viewed very positively," **Corrinne Caldwell**, CEO of Penn State Mont Alto, said. "There is a underserved by higher education and there is a lot of opportunity for everyone to look at how they deliver services and to review their missions."

Dr. Caldwell said as part of exploring all of Mont Alto's options, she has met with the presidents of Shippensburg University and Wilson College. In addition, campus representatives have met with superintendents of local school districts, county commissioners and local legislators, as well as colleagues at Penn State York and Penn State Harrisburg.

Her counterpart in the western half of the state, **Dennis Travis**, CEO of the Penn State Beaver Campus, has also met with leaders of other institutions in that region. Like other campuses, Beaver undertook an extensive survey that included 5,000 high school students, 15 Beaver County school district superintendents, the Intermediate Unit of Beaver County and the 800-member county chamber of commerce, seeking input on their view of what the Beaver Campus' mission should be.

At neighboring New Kensington Campus, officials there are still polling 100 companies, higher education institutions, technical outlets and students to get their views of the area's training and educational needs.

"We've talked to almost all of the redevelopment agencies for surrounding counties about economic

CES planning progressing, faculty told

Commonwealth Educational System campuses and other Penn State locations are making significant progress in studying their current missions and recommending missions for the future that best meet the needs of their communities, the University Faculty Senate was told at its December 1995 meeting. University President **Graham B. Spanier** said he was "incredibly impressed with the highly skilled campus CEOs" and the efforts they have already begun to investigate and choose plan options. (See main story, page 1)

Each of the CES campuses, along with Penn State Harrisburg and Penn State Erie, The Behrend College must scrutinize its current mission (*Intercom*, Oct. 26, 1995). Each was asked to examine demographic data, enrollment trends, regional needs and feasibility, and recommend one of three or four options for its best and most appropriate future direction.

Robert E. Dunham, CES senior vice president and dean, said the plan would help Penn State more clearly define "the important and unique role" it plays in communities around the state. Dr. Dunham also said he welcomed the input of the Senate throughout the process.

Dr. Spanier said "there's a lot of good feeling" at the campuses about what the plan can accomplish. "People are looking ahead rather than behind."

When the plan was announced in October, presidents of all public and private colleges and universities in Pennsylvania were informed. Dr. Spanier said most offered positive comments, expressed gratitude for sharing the information and acknowledged that the information-sharing

approach was unprecedented. Others said they understood the need for the plan, asked to be part of it, and suggested talking about areas of cooperation, Dr. Spanier said. Only a few respondents said they were "a little nervous" about the plan.

Dr. Spanier emphasized that the purpose of the plan was to ensure that the campuses meet the needs of their communities and that there was no intent to disrupt the operations of other institutions.

In other business, the Senate:

■ Heard a report that suggested a grade inflation rate at Penn State of about 2 percent over 20 years. **John W. Moore**, chair of the committee that produced the grade distribution report, said that while some were "made uneasy" by the numbers, several reasons could justifiably account for the rise in grades. "Our only recommendation would be that departments should look to their own practices and see what they can do to make sure those practices agree with department standards," Dr. Moore said.

■ Adopted a curricular policy change allowing credits earned by students at institutions not accredited by any of six regional accrediting commissions (but licensed by the state) to be validated and accepted by Penn State. The change will allow, but not require, University departments to accept such credit transfers.

■ Agreed to consider a proposal to establish a minimum salary plan for faculty, patterned after the State System of Higher Education plan, and to charge the Faculty Affairs Committee with developing such a plan.

The Senate's next meeting will be at 1:30 p.m. Jan. 30 in Room 112 Kern Building.

trends and information about companies they're trying to attract to the area," **Catherine Gannon**, CEO for the new senior southwestern Pennsylvania; many different ways to many different people. The more we ask, the more successful we're likely to be in answering adequately."

Karen Wiley Sandler, CEO for the Penn State Abington-Gonzaga Campus in the Philadelphia region, agreed that frequent consultations with external and internal groups, as well as with nearly a dozen other institutions in the area, have provided her with valuable information about how to better serve her constituents.

"This process, although on a very short time line, has given us a wonderful opportunity to use what we know of the area and what people really want," she said. "It has also shown us that there is a lot of room for collaboration among the 83 competing institutions in this area."

Already, Abington-Gonzaga's initial talks have opened the door for a joint grant proposal for a minority access program in the summer and there has been discussion of institutions of sharing faculty on certain projects, according to Dr. Sandler.

Dr. Gogniat said for the York Campus, the process has allowed "more people than ever before to know what we're about."

While some campuses voted on which option to select, other campuses will not vote, but instead will

let the results of their studies decide which option is most viable.

"Our job was to get as much detail on each option and figure out what makes the most sense for Penn State, what's in the best interest of the communities we serve and what is in the best interest of our students," Dr. Gogniat said. "This has made us all look closely at the role Penn State plays throughout all of Pennsylvania."

Dr. Gannon said she "feels good" that the campus community has "tried to step back and be noble in looking at each option regardless of how those options affect them as individuals." Dr. Sandler admitted the process, which is only in its initial stages, will not be an easy one.

"I have told my faculty and staff that we must be bold and we must be realistic," Dr. Sandler said. "This is not easy, but it's time for the entire community to exercise its own accountability."

The recommendations, if accepted, by August are expected to dovetail with the University's five-year strategic planning process, which will be set in motion beginning July 1, 1997. Strategic plans are currently being developed by the University Planning Council, which is reviewing University-wide issues related to priorities, critical processes and structure. The CES self-evaluation process and the role each campus will play in the future is a key element of the five-year strategic proposal.

Lisa Rosellini and Annemarie Mountz

Care

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State College area is highly attractive to retirees with ties to Penn State. The involvement of the University will help ensure the success of such a community.

If a CCR is developed, it is anticipated that The Hershey Medical Center would provide medical care to the community and that both the University Medical Center and the College of Health and Human Development would provide

research and service. The alumni association would be involved in promoting and marketing the facility, especially to Penn State alumni, faculty and staff; dozens of whom have expressed interest in returning to or remaining in the State College area in their retirement years.

According to Dr. Spanier, such a community can provide other important benefits for Penn State through volunteer service and philanthropy. "We have many alumni and friends of the University have a desire to assist Penn State by lending their consider-

able expertise and by participating in a broad range of University-related recreational, cultural and academic programs," Dr. Spanier said. "There is a reservoir of knowledge among retirees, and I would like to find some way to capture their enthusiasm for Penn State on behalf of our academic and academic support programs."

The University expects to seek proposals outlining a "turnkey" approach, in which an operator would design, build and operate the facility. The committee hopes to send out requests for proposals by the end of February.

The committee includes: **William H. McKinnon**, senior associate vice president for finance and business, chair; **Dr. James E. Meade**, a physician at The Hershey Medical Center; **Barbara Shannon**, dean of the College of Health and Human Development; **Barton W. Browning**, associate professor of German and immediate past chair of the University Faculty Senate; **James A. Rhodes**, director of trusts, estates and endowments; and **Peter B. Weiler**, associate vice president and executive director of the Alumni Association.

Appointments

Professor named new head of Department of English

Don H. Bialostosky, professor of English, has been named head of the English Department, effective immediately. He succeeds Robert Secor, who assumed the position of vice provost for the University in October.

Dr. Bialostosky joined the English department in 1993 as a professor in the rhetoric and composition program and has directed the Penn State Conference on Rhetoric and Composition for the past two summers. He has served as director of the graduate program in English since 1994. Besides working in rhetorical theory, he also has worked extensively as a literary critic and theorist, specializing in British Romantic poetry and poetics, especially the work of William Wordsworth, and in the literary theories of Mikhail Bakhtin.

Dr. Bialostosky is the author of two books, *Making Tales: The Poetics of Wordsworth's Narrative Experiments* (1984), and *Wordsworth, Dialogues, and the Practice of Criticism* (1992), and is the coeditor of *Rhetorical Tradition and British Romantic Literature* (1995), in addition to more than 35 scholarly articles, book chapters, and review essays on such topics as narrative theory, liberal education and the discipline of English studies. From 1983 to 1994, he served on the editorial board of *The Bakhtin Newsletter* and since 1988 of the *Rhetoric Society Quarterly*. He is a member of the board of directors of the Society of Critical Exchange and serves on the executive committees of the Modern Language Association and of the Conference on College Composition and Communication.

Before coming to the University, he was Distinguished University Professor of English at the University of Toledo, where he had been on the faculty since 1987. From 1983 to 1987 he taught at the State University of New York at Stony Brook, and before that at the University of Washington and the University of Utah. He received grants from the National Endowment for the Humanities, the American Council of Learned Societies, and the Ohio Board of Regents and has lectured and consulted widely.

Dr. Bialostosky received his bachelor's, master's and doctoral degrees from the University of Chicago.

College of Engineering appoints coordinator of college relations

Lani Bloomer has been appointed coordinator of college relations for the College of Engineering. She comes to this position from the Penn State Altoona Campus, where she worked as a public information assistant since 1987.

In addition to handling public information and media relations for the Altoona Campus, she produced publications and promotional materials for the recently successful \$2.1 million Campaign for Advanced Technology and for the campus' 1995 Summer Sessions marketing campaign, which increased summer enrollment at the campus more than 45 percent. She helped develop the "World of Opportunities" television commercials, redesigned and pro-

duced the alumni newsletter *Joy Leaf*, and served as team leader for a CQI team which recently developed a campus employee handbook and information directory.

Before working at the Altoona Campus, she wrote a weekly newspaper column on microwave cooking for four years, taught cooking classes, and before that, taught art at Bishop Guilfoyle High School in Altoona for four years. An active volunteer in Tyrone's educational system, she was founding president of the Tyrone Renaissance Education Foundation, a member of the Tyrone Area High School Parent's Advisory Group, and founding president of Sinking Valley Preschool Inc., a parent-run nonprofit organization now in its 16th year of operation.

Ms. Bloomer has an M.S. in family economics and home management from Penn State and a B.A. in English also from Penn State.

In her new position, she will be responsible for media relations and publicity, promotional materials, coordinating publications and editing *Engineering Penn State* for the College of Engineering.

Schuylkill adds admissions officer

Jerry D. Bowman has been appointed admissions officer at the Penn State Schuylkill Campus. He will be responsible for recruitment, admissions processing and yield management.

A native of Vincennes, Ind., Mr. Bowman had served the campus since 1986 as the assistant director of student affairs, responsible for student activities. He served nine years at Vincennes University as assistant director of admissions, international student adviser and residence hall director.

Mr. Bowman holds undergraduate and graduate degrees from Indiana State University. He is active in the local community, serving on the boards of the Blue Mountain School District and the Literacy Council of Schuylkill County.

Mont Alto welcomes coordinator to Office of University Relations

Laura Frome, a 1994 Penn State graduate, has joined Penn State Mont Alto's Office of University Relations as the public information/special events coordinator. In this position, she will work on all public information, recruitment and development publications; coordinate special events; and write and edit the campus and alumni newsletters.

Ms. Frome comes to Mont Alto from WITF Inc. in Harrisburg, where she served as the instruction services assistant. Her duties included coordinating WITF's instructional television service for

more than 40 area schools, writing and editing a monthly newsletter, and acting as the project manager on various statewide and nationwide teleconferences.

While at Penn State, Ms. Frome held a work study position as a promotion assistant for WPSX-TV. Also included in her experiences are internships at WGAL-TV, Granada Television and the BBC. Before moving to the Mont Alto area, she was an active member of the Lebanon County Chapter of the Penn State Alumni Association.

Altoona welcomes first full-time personal counselor

Joy Himmel has been named the first full-time personal counselor at the Penn State Altoona Campus.

In this position, she is responsible for one-on-one counseling of students, as well as coordinating and directing various programs and services to students.

Trained as a psychiatric nurse at the State University of New York-Plattsburgh, Ms. Himmel has extensive experience in both hospital care and community based programs. Since 1988, she has been associated with Home Nursing Agency, most recently as the clinical director. In 1991, she earned a master's degree in counseling from Indiana University of Pennsylvania.

Ms. Himmel received American Nursing Association certification as a clinical specialist in adult psychiatric nursing in 1993, and in 1994 was certified as a cognitive behavioral therapist from the Cleveland Center for Cognitive Therapy. She has also presented clinical workshops on treatment planning, psycho pharmacology, sexual abuse, dual diagnosis, professional ethics and counseling styles.

Altoona student affairs appoints assistant director for residence life

Michelle R. Jefferson is the new assistant director of student affairs for residence life at the Penn State Altoona Campus, where she will be responsible for all residence life activities. Ms. Jefferson comes to Altoona from Lehigh University where she served as a residence hall director for one year. Before that, she served as a residence director and facilities coordinator at Beaver College in the suburban Philadelphia community of Glenside.

Ms. Jefferson received her bachelor's in sociology and women's studies from Rutgers University, and her master's in education from Beaver College. Currently, she is active in the National Association of Student Personnel Administrators.



Don H. Bialostosky



Jerry D. Bowman



Joy Himmel



Laura Frome



Michelle R. Jefferson

Appointments

University names two senior diversity planning analysts

Wanjiru J. Kamau, a counseling and retention specialist, and Susan R. Rankin, a specialist in exercise programming for older adults and higher education administration who is also head coach for the Penn State women's softball team, have been named senior diversity planning analysts for the Office of the Vice Provost for Educational Equity, beginning this month. A search will be conducted shortly for a new head coach for the women's softball team.

As diversity analysts, they will be responsible for continuous monitoring of institutional research, planning and analysis associated with the University's goal of promoting and enhancing cultural diversity.

Ms. Wanjiru, who has been working part time for the vice provost's office reviewing and updating the Equal Opportunity Program Committee guidelines and evaluation reports, also has been working on her doctoral program in counseling education.

She has taught classes on counseling at the University Park Campus and at the Penn State Delaware County Campus, where she was a retention specialist from 1990 to 1993. There she also worked with incoming students and prepared EOPE proposals for the campus.

In Kenya, Ms. Kamau was assistant dean of students at the University of Nairobi, where she coordinated the campus affairs of 8,000 students and was on-site coordinator for international exchange students. She has been a senior assistant administrator at the Institute for Development Studies at the University of Nairobi, a large social science research institute, and has taught English at several schools in Kenya.

Ms. Kamau holds a master's degree in counseling education from Penn State, a bachelor's degree from San Jose State University and a diploma from Kambui Teacher Training College in Kenya.

Dr. Rankin has been coordinator of the exercise gerontology program in the College of Health and Human Development since 1986, and head coach of the women's softball team since 1982. She received a doctoral degree from Penn State in higher education administration last year. She has a master's degree in exercise physiology, also from Penn State, and a bachelor's degree from Montclair College, N.J.

She has taught exercise gerontology, teaching methods and activity programming for older

adults, principles of athletic coaching and softball methods as well as exercise physiology. She coordinates the internship programs in exercise gerontology and advises students in exercise gerontology and exercise science programs.

As head coach, Dr. Rankin has been responsible for training, conditioning and recruiting, and managed practice and contest schedules, budgets, fund raising and community service. She is a member of the Equal Opportunity Planning Committee and the Gender Equity in Athletics Subcommittee for the Commission for Women, and has served on a number of department and college committees.

Executive director of University Relations comes on board Feb. 15

Stephen J. MacCarthy, director of public affairs and university relations for the California State University System, has been appointed executive director of university relations at Penn State, effective Feb. 15.

The executive director of university relations reports directly to the president of the University and is responsible for internal and external public relations, publications and marketing. Mr. MacCarthy also will coordinate university relations efforts of the colleges, the directors of university relations at Penn State's 23 campuses and others responsible for relating the University to its constituencies.

At the California State University System, he has been responsible for media and community relations, publications, internal communications, special events, and alumni relations since 1987. He worked closely with the chancellor and the presidents of the 22-campus system.

Before joining higher education, Mr. MacCarthy held a number of public relations and communications positions in California. He was press secretary and communications director for the County of San Diego Board of Supervisors from 1985 to 1986; creative director for Sullivan/Luallin Associates, an advertising and public relations firm, from 1984 to 1985; and communications manager for a software firm, Via Computer Inc., from 1982 to 1984.

He has worked for 20th Century Fox, Warner Brothers and Universal Studios on a broad range of screenwriting projects. He wrote the pilot scripts for two CBS series, "Run for the Money" and "Cupid," which he developed and sold to CBS, as well as a story for an episode in the CBS series "House Calls."

Mr. MacCarthy received a bachelor of science degree in communications from San Diego State University in 1977. He also has taken graduate classes in business and computer information systems from Coleman College in San Diego, and from Harvard University in the management development program.

Specialist joins University Libraries

Herbert J. Muhammad has been named training, education, and development specialist in the University Libraries. He will provide leadership and direction for the assessment, design, and development for staff and faculty at all Libraries locations.

His responsibilities will include coordinating training on such topics as sexual harassment, diversity, and other issues. He also will be involved in assessing the impact of technical and non-technical training on staff to see that consistent results are achieved.

Mr. Muhammad brings to Penn State experience in both the private sector and in academia. As manager of his own consulting firm, HJM & Associates, he designed, produced and facilitated workshops, seminars, instructional training programs and comprehensive personnel management curricula for corporate, social, educational and international organizations. He also has been an adjunct faculty member at the University of Cincinnati.

In addition to his professional activities, Mr. Muhammad has served as a Middle East witness during a trip to Israel and Egypt. He also was part of an interfaith group that traveled to the former Yugoslavia to investigate human rights abuses, particularly against women.

He received a master of arts degree in educational media/instructional design from Miami University (Ohio) and a master of education degree in personnel training, education and development from Xavier University.

Penn State Harrisburg names manager of safety, police services

A former colonel in the Baltimore County Police Department is the new manager of safety and police services at Penn State Harrisburg.

Leonard J. Supenski, with more than 25 years of law enforcement experience, begins his duties on Jan. 15.

Nationally and internationally recognized as an expert in hate violence, community disorder, and firearms training and policy, Mr. Supenski most recently served as chief of the Baltimore County Police Department's Technical Services Bureau. In this post he was a member of the executive management team reporting directly to the chief of police and was responsible for the leadership of several key business functions including bureau communications, information management, records, materials and property management, evidence collection and forensic services.

He planned, administered and controlled an \$8 million annual operating budget, a \$7 million fleet inventory and a \$3 million radio inventory. Mr. Supenski also served as the chief of the Crime Prevention Bureau, was a member of a total quality management committee and an instructor at the department's police academy.

He holds a bachelor of science degree in sociology with a concentration in law enforcement and corrections from Towson State University and a master of arts degree in general education with a concentration in personnel management and administration from the same institution.



Wanjiru J. Kamau



Stephen J. MacCarthy



Herbert J. Muhammad



Susan R. Rankin

The Arts

AT PENN STATE

Bach's Lunch

Sandee Shaddock, mezzo soprano, and Kim Reese, horn, will perform at the Bach's Lunch concert at 12:10 p.m. Thursday, Jan. 11, in the Helen Eakin Eisenhower Chapel on the University Park Campus. Their program will include works by Donizetti, Schubert, Skroup and Singer.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

Ms. Shaddock and Ms. Reese are Ph.D. candidates in music education.

The concert is free to the public. Audience members may take brown bag lunches. Coffee and tea will be provided.

"42nd Street"

"42nd Street" will be performed at 8 p.m. Friday and Saturday, Jan. 12 and 13, in Eisenhower Auditorium on the University Park Campus. The performances are sponsored by the Center for the Performing Arts.

Winner of the 1981 Tony Award for best musical, "42nd Street" features show tunes from the Depression era such as "We're in the Money" and "Lullaby of Broadway."

"42nd Street" begins the Center for the Performing Arts spring season, which includes 18 events. Other highlights include:

- "Angels in America" is a two-night comedy/drama performance. Part I, "Millennium Approaches," will be Tuesday, Feb. 13; Part II, "Perestroika," plays Wednesday, Feb. 14.

- "Annie," with memorable tunes like "Tomorrow" and "It's a Hard Knock Life," shows at 8 p.m. Friday and Saturday, Feb. 16 and 17, and 3 p.m. Saturday, Feb. 16.

- Conductor Leonard Slatkin's final tour with the Saint Louis Symphony Orchestra comes to Penn State Friday, Jan. 19.

- "Halley's Comet" is a one-person show chronicling the life of an 87-year-old man between two sightings of Halley's comet. John Amos, known for his roles in "Roots" and television's "Good Times," wrote and performs the work. It shows Wednesday, Jan. 31.

Urban Bush Women returns to Penn State with dance, theatre, vocals and recollections of folklore and African spiritual traditions. It presents "Bones and Ash: A Gilda Story," an evening-length work, on Saturday, Jan. 27.

- David Rousseve and his avant-garde dance/theatre troupe REALITY

appear in a work titled "Whispers of Angels." Mr. Rousseve will participate in a two-week residency to coincide with the Saturday, April 20, performance.

For tickets or information, contact the Arts Ticket Center Monday through Saturday, 8:30 a.m. to 4:30 p.m., at (814) 863-0255 or (800)ARTS-TIX.

Collaborative exhibitions

The School of Visual Arts Zoller Gallery and Bellefonte's Adam & Art Gallery will present collaborative exhibitions of the works of the late George Zoretich, professor emeritus of art. The exhibitions will open Jan. 14 and continue through Feb. 9.

The Zoller exhibition, "George Zoretich: Painter of the Pennsylvania Landscape," is a retrospective of Mr. Zoretich's paintings.

Opening receptions for the simultaneous exhibitions will be held Sunday, Jan. 14, from 2 to 5 p.m. at Zoller Gallery and Adam & Art. Zoller Gallery is in room 101 of the Visual Arts Building on the University Park Campus. Adam & Art is located at 126 S. Allegheny St., Bellefonte.

The Zoller Gallery is open Monday through Friday 9 a.m. to 5 p.m.; Saturday 11 a.m. to 4:30 p.m. and noon to 4 p.m. Sunday. For information on Adam & Art hours, call 353-1450.

Robeson Center exhibition

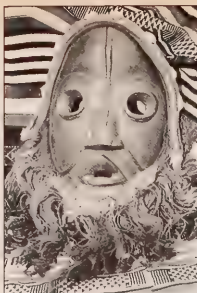
"Africa and the Diaspora: Personal Collections," an exhibition of African, African-American, Haitian and Brazilian art and artifacts, will open at the Paul Robeson Cultural Center on the University Park Campus on Sunday, Jan. 14, and remain on display until Friday, Feb. 23.

The exhibition, sponsored by the College of Arts and Architecture, the Office for Development of the Arts and the Robeson Center, has been developed from the personal collections of Penn State faculty and staff, particularly Grace Hampton, executive assistant to the provost for the development of the arts, and Charles Dumas, visiting professor in the Department of Theatre Arts.

The opening of this free exhibition coincides with the celebration of Martin Luther King Jr. Day and Black History Month. An invitation-only reception is planned for the Jan. 14 opening.

The Robeson Cultural Center is open from 8 a.m. to 10 p.m. Monday through Friday, 11 a.m. to 4 p.m. Saturday and 1 to 4 p.m. Sunday.

For more information call Dr. Hampton at (814) 863-5408, Mr. Dumas at (814) 863-9413, or Larry Young at (814) 865-1779.



On display

"Africa and the Diaspora: Personal Collections" will be on display Jan. 14 through Feb. 23 at the Paul Robeson Cultural Center on the University Park Campus.

Jury Recognition Recital

The School of Music jury recognition recital is set for Wednesday, Jan. 17, at 8 p.m. in the School of Music Recital Hall on the University Park Campus.

Eleven undergraduates will perform at the recital, which is free to the public.

A capella in Harrisburg

"Regency," a five-man a capella group from Baltimore, kicks off the 1996 Penn State Harrisburg concert sale with a noon appearance Jan. 17 in the Gallery Lounge.

Regency's repertoire includes the hottest sounds of today mixed with the sounds of The Temptations, Otis Redding, the Righteous Brothers, Sam Cooke, Elvis Presley, James Brown and even country.

The Jan. 17 concert is free to the public. For more information, call (717) 948-6273.

Children's drama classes

The Department of Theatre Arts is accepting registrations for winter/spring drama classes for children. The classes will be held at the Paul Robeson Cultural Center on the University Park Campus. Weekly sessions begin Saturday, Jan. 20.

MetaStages Theatre Center is an outreach program of the Department of Theatre Arts offering drama classes after school and on Saturdays for students from kindergarten through 12th grade. Students receive performance training from professionals in acting, voice, movement, mime and mask as they rehearse and perform folk plays from various countries. Classes culminate with an afternoon of final performances.

Class size is limited. For more information, call Joann Leonard, MetaStages director, at (814) 867-8390.

Concert series

The HUB on the University Park Campus kicks off its "Distinctive Styles" 1996 spring concert series on Jan. 25

and continues it through April 18. All concerts are free and begin at 8 p.m. The events follow:

- Jan. 25: Mike Rayburn will provide a blend of music, comedy and acoustic guitar.

- Feb. 22: The musical group Appalachian Spring will give a performance reflecting the wide range of broad musical backgrounds of its members. The group plays everything from Irish jigs to klezmer melodies to Mozart.

- March 21: South American harp player Alfredo Rolando Ortiz will cover folk, classical and popular music of many countries.

- April 18: The Pan Masters Steel Orchestra will perform many distinctive styles including calypso, soca, folk, classical, samba and reggae.

Photos exhibited in Pattee

"Faces from an American Dream," an exhibit of photographs by Martin Desht, is on display in Pattee Library's East Corridor, West Lobby, and Lending Service Galleries through Jan. 29.

The subject of Mr. Desht's work is the decline of industry in Pennsylvania and the effects of de-industrialization on the economy and on people who depended upon it. The exhibition will include 36 photographs accompanied by selections from Richard E. Sharpless' interviews of the residents of what was once the most industrialized state in the nation.

Mr. Desht is a former steelworker who was laid off in 1978. His work has been shown in the U.S. Senate's Russell Rotunda, New York University's Leonard Stern School of Business and Indiana University of Pennsylvania's Oliver Kipp Art Gallery.

Exhibit in Harrisburg

The initial Penn State Harrisburg Gallery Lounge art exhibit for 1996 features the works of York resident Judith Feather-Williams. The exhibit is open to the public and runs Feb. 10.

Ms. Feather-Williams has studied various forms of art and education. Her present explorations are in multimedia art intermixing fiber techniques with painting, drawing, poetry and papermaking.

"Cats" date changed

The College of Arts and Architecture Center for the Performing Arts presentation of "Cats," originally scheduled for 8 p.m. Monday, March 19, has been changed to Thursday, March 21, in Eisenhower Auditorium on the University Park Campus. Performances scheduled for Tuesday, March 19, and Wednesday, March 20, will not change.

The date change is due to a conflict with the "Cats" touring schedule that prevents the company from arriving at Penn State in time to stage a Monday performance.

Patrons may use existing Monday, March 18, tickets for the Thursday, March 21, performance. They will be assigned the same seat locations.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, January 11
Bach's Lunch, noon, Eisenhower Chapel.
Sande Shaddock, mezzo soprano, and Kim Reese, horn.

Friday, January 12
Gallery Talk, 1:30 p.m., Christoffers Lobby.
Sarah Andrews on "Collecting Medieval Art in America."

■ Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. John Novak on "Working Toward Health Reform in the Former Soviet Union: Lessons Learned."
Center for the Performing Arts, 8 p.m., Eisenhower Aud. "42nd Street." For tickets call (814) 863-0255. Through Jan. 13.

Saturday, January 13
Gallery Talk, 1 p.m., Christoffers Lobby.
Aaron Rothner on "Collecting Medieval Art in America."

■ Film, 2 p.m., Palmer Lipson Aud. "Europe in the Middle Ages: The Birth of the Middle Ages."

Sunday, January 14
The Forum on Black Affairs, Penn State Scenic. Dinner featuring community and campus choirs and musical groups.
Art History, 2 p.m., Palmer Lipson Aud. Elizabeth Bradford Smith on "William Poyntell (1756-1811): First American Collector of Medieval Art?"

Monday, January 15
Theatre Arts, 7:30 p.m., Eisenhower Aud. Free dramatic presentation of "We Are The Dream."

Tuesday, January 16
The Student Volunteer Fair, HUB.

■ Catholic Fellowship Meeting, noon, 212 Eisenhower Chapel. Father Fred Byrne on "Twining with Haiti."
Distinguished Speaker Series, 8 p.m., Eisenhower Aud. Captain James Lovell, writer of Lost Moon, the story of the mission of Apollo 13, speaker.

Wednesday, January 17
■ Entomology "Catch the Bug," 7 p.m., 101 ASI. Tropical adventures: Learn about preserving the rain forest of Costa Rica.
School of Music, 8 p.m., Recital Hall. Jury Recognition Recital.

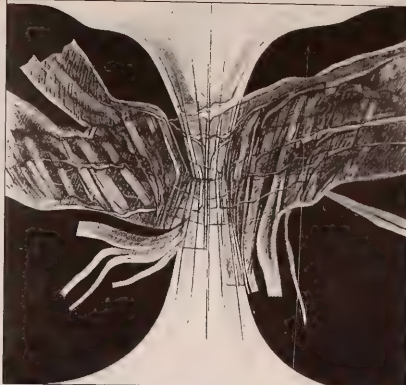
Thursday, January 18
Bach's Lunch, noon, Eisenhower Chapel. Saxophonia.
Sigma Xi, noon, 305 HUB. Harry R. Alcock on "The Design and Assembly of New Materials From Fundamental Principles."

Friday, January 19
Gallery Talk, 2:30 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "Baroque Art at the Palmer Museum."
Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Dean R. Snow on "Tracking Down the Iroquois: The Uses of GIS in Paleogeography."
Center for the Performing Arts, 8 p.m., Eisenhower Aud. The Saint Louis Symphony Orchestra. For tickets call (814) 863-0255.

Saturday, January 20
Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Beth Lombardi on "Collecting Medieval Art in America."

■ Film, 2 p.m., Palmer Lipson Aud. "Europe in the Middle Ages: The City of God."

Sunday, January 21
Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Kathryn McClintock on "Collecting Medieval Art in America."
■ Art History, 2 p.m., Palmer Lipson Aud. Betsy Rosasco on "The Study and Teaching of Medieval Art at Princeton:



Collaborative exhibition

The School of Visual Arts Zoller Gallery on the University Park Campus and Bellefonte's Adam & Art Gallery will present collaborative exhibitions of the works of the late **George Zoretich**, professor emeritus of art. The exhibitions will open Jan. 14 and continue through Feb. 9.

The Influence of the Scottish Enlightenment on the Dark Ages."
Center for the Performing Arts, 8 p.m., Eisenhower Aud. "Akyene Basko Drumming." For tickets call (814) 863-0255.

SEMINARS

Saturday, January 13
Frontiers of Science, 11 a.m., 104 Classroom Bldg. Robert D. Minard on "Chemical Evolution and the Origin of Life: Protons to Proteins."

Tuesday, January 16
Geosciences, 3:30 p.m., 341 Delke. Jim Kasting on "Environmental Constraints on the Origin of Life."
Biology, 4 p.m., 8 Mueller Lab. Gloria Mudray on "Association of an Axinin Transport Protein with the Actin Cytoskeleton."

Wednesday, January 17
Gerontology Center, 12:15 p.m., 101 H&H East. Gretchen Cornwell on "The Empty Nest Revisited: Older Parent-Adult Child Co residence."

Thursday, January 18
Economics, 11 a.m., The Gallery, HUB. David E. M. Sappington on "Wealth, Ability and Entrepreneurial Opportunities."
Computer Science and Engineering, 4 p.m., 302 Pond Lab. John Mason on "Intelligent Transportation Systems."

CONFERENCES

Wednesday, January 17
Composting Ingredients, Mushroom Research Center.

PUBLIC RADIO

WPSU-FM 91.5
"Morning Edition," Mon.-Fri., 6-9 a.m.
"Performance Today," Mon.-Fri., 9-11 a.m.
"All Things Considered," Mon.-Fri., 4-7 p.m.; Sat. & Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m.
"Fiesta Air with Terry Gross," Mon.-Fri., 7-8 p.m.
"Odyssey Through Literature with S. Leonard Rubenstein," Wed., 8 p.m.
"Car Talk," Fri., 8 p.m. and Sun., 6 p.m.
"Living On Earth," Mon., 8 p.m.
"Inside Europe," Sat., 4:30 p.m.
"The Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

Palmer Museum
"Photographs from the Permanent Collection," 20 photographs from the Palmer Art Collection, through Jan. 14.
"Medieval Art in America: Patterns of Collecting 1800-1940," through March 3.
"Rapture at the Interface Between Love and Disease," contemporary photography and sound by David Teplica and Bryan Shuler, through March 10.
■ Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945, through March 10.

Paul Robeson Cultural Center
■ "Africa and the Diaspora: Personal Collections," exhibition of African, African-American, Haitian and Brazilian art and artifacts, Jan. 14 through Feb. 23.

Zoller Gallery
"George Zoretich: Painter of the Pennsylvania Landscape," Jan. 14 through Feb. 9.

■ Reflects an international perspective

TIPS

Information Penn State
Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather — 234; Arts Line — 345; University Calendar — 456.

United Way fund gets \$400,000 from University

More than \$400,000 was raised by faculty, staff, retirees and students for the 1995 University Park United Way campaign, the highest total ever. The Penn State contribution, more than one-third of the Centre County Campaign, put the county totals well over the million dollar mark.

University Park United Way Chairman **Lamarine F. Hood**, in announcing the totals to campaign volunteers at a December celebration, said the total was \$406,000 and climbing.

In addition to contributions by more than 2,900 individuals, Dr. Hood cited the participation by Penn State retirees who to date have given more than \$50,000. Spearheading the retiree campaign for the second year was **Leon Kneebone**, professor emeritus of plant pathology.

The Beaver Stadium Recycling Project netted \$10,600 for United Way. Heading up this effort were **Al Matysovsky**, preventative maintenance and solid waste management foreman in Office of Physical Plant, **Steven Krentzman** and **Tom Shaffer** of Joseph Krentzman and Sons, and **Joanne Shafer** from the Solid Waste Authority. Several businesses provided support to this effort including: Steel Recycling Institute, Glass Packaging Institute, Subways of State College and Print-It-Plus.

United Way teams across campus also conducted special fundraisers on behalf of United Way.

Cited for exceptional achievement in dollars raised and participation were:

Highest increase in dollars: Graduate School, **Ginny Imboden**, team leader; highest percentage giving: Finance and Business, general operations, **Arlene Bilger** and **Philip Melnick**, team leaders.

Category 2 (101 to 200 employees): Highest increase in dollars: Corporate Controller, **David Wise** and **Philip Melnick**, team leaders. Highest percentage giving: Development and Alumni Relations, **John Dietz**, team leader.

Category 3 (201-400 employees): Highest increase in dollars: Athletics, **Dale Roth**, team leader; highest participation: Continuing and Distance Education, **Jane Campbell** and **Jeanne McGrath**, team leaders.

Category 4 (401 or more employees): Highest increase in dollars: College of Agricultural Sciences, **Laura Bordsas**, team leader; Highest participation, College of Health and Human Development, **Lynn Rockwell**, team leader.

Obituaries

Retired physical plant administrator

Norman H. Bedell, retired assistant vice president for physical plant, died Jan. 2. He was 64.

A 1954 graduate of the U.S. Military Academy with a bachelor of science degree in military science, he was a 1959 graduate of the University of Illinois with a master of science degree in civil engineering, and a 1976 graduate of the University of Dayton, Ohio, with a master's degree in business administration.

From 1954 to 1974, he served in the U.S. Army Corps of Engineers, with service in many parts of the United States and overseas.

Following his retirement from the Army, Mr. Bedell worked for Monsanto Corp. from 1974 to 1976. From 1976 to 1980, he worked at Bowling Green State University; from 1980 to 1987, he worked at Duke University. He joined the Penn State staff in 1987 and retired July 30, 1995.

He was an active member of the Association of Physical Plant Administrators, an international professional organization for physical plant administrators, serving as vice president and board member for several years.

He also was active in the Eastern Region of APFA, serving as president and holding several other official positions in the organization. He assisted in establishing a state-wide chapter of the APFA in North Carolina and a chapter that includes Central and Western Pennsylvania.

Memorial contributions may be made to the Penn State Office of the Physical Plant Beautification Fund, University Park, PA 16802.

Professor emeritus of accounting

G. Kenneth Nelson, long an important figure in The Smeal College's Department of Accounting, died Dec. 27. He was 73. A memorial service at the University Park Campus is being planned.

Dr. Nelson, professor emeritus of accounting, retired from Penn State in 1986 after 36 years of service. He was chair of the Department of Accounting from 1958 to 1976, overseeing a five-fold growth in the major from fewer than 100 undergraduates to the second largest body of accounting students in the nation. At the time of his retirement, he was estimated to have taught more than half of all Penn State students who have ever taken introductory accounting here — more than 30,000.

He also was known as a pioneer of televised instruction at Penn State. Beta Alpha Psi named him Accounting Educator of the Year. From 1976 to 1986, he served as faculty director of the Commonwealth Campus Faculty in Business Administration, and was the recipient of the first Dean Arthur R. Warnock Award from the University's Interfraternity Council in 1990. Named Outstanding Student Adviser three times, he founded the Accounting Club in 1950 and continued to serve as adviser to the organization even after he retired.

Dr. Nelson also was the founder and first adviser to the Penn State chapter of Beta Gamma Sigma honorary society and was adviser to Acacia fraternity, which in 1993 established a scholarship fund in his name. In 1988, the G. Kenneth Nelson Endowment was established in his honor. The fund provides scholarships and fellowships for Penn State accounting students. Dr. Nelson was a 1943 graduate of the University of Pennsylvania's Wharton School, and received master of science and Ph.D. degrees from the University of Illinois. He earned the certified public accountant designation in Illinois and served in the Army Air Corps in World War II.

Memorial contributions may be made to the G. Kenneth Nelson Endowment Fund, The Pennsylvania State University, One Old Main, University Park, PA 16802-1502.

News in Brief

Australia Day Dinner

The Fourth Annual Australia Day Dinner will be held at 6:30 p.m. Thursday, Jan. 25, at the Nittany Lion Inn on the University Park Campus.

The event, which is sponsored by the Australia-New Zealand Studies Center and the Penn State Faculty Staff Club, is an observance of Australia's national day and commemorates the arrival of the first fleet of convicts in Sydney Bay in 1788.

This year's menu features selections reflective of Australia's multicultural population and status as a full-fledged member of the community of Pacific Basin nations. Pre-registration is required.

For additional reservation information, please contact **Patricia Corbett**, Australia-New Zealand Studies Center, 427 Boucke Building; telephone 863-1603; e-mail: pac9@psu.edu; fax 865-3336.

Child Study Center open house

The Department of Psychology will host an open house on Friday, Jan. 26, from 3-6 p.m. at its recently opened Child Study Center in University Support Building 1 on the University Park Campus.

The Center houses members of the department's child-clinical and developmental psychology programs and is home to the Child and Adolescent Psychological Clinic and multiple research projects which investigate various aspects of development and of childhood psychological disorders. Refreshments will be served. For more information, call **Fatty Varacalli** at (814) 863-2441 or **Carolyn Fishburn** at 865-1670.

Yogurt taste test

Individuals between the ages of 8 and 16 are needed for a study involving tasting various yogurt products and completing a survey about yogurt and milk usage. The food science research project will aid in the development of a children's yogurt product. Participants in the study, under the direction of **Maureen Sigman-Graft**, will receive \$1.50 a coupon for the Creamery. Total test time is estimated at 20 minutes and will be held on the following dates: Thursday, Jan. 18, from 6-8 p.m.; Saturday, Jan. 20, from 9 a.m.-5 p.m.; and Sunday, Jan. 21, from 10 a.m.-4 p.m. Participants may choose their time slot.

Anyone interested in participating should contact **Cathy Papalia**, graduate assistant, at 863-7783 (day) or 862-9160 (evenings or weekends).

Paid volunteers needed

Female volunteers are needed to participate in a study at the Laboratory for the Study of Human Ingestive Behavior in Henderson Building on the University Park Campus. The study involves eating meals in the laboratory Monday through Thursday of every other week during a nine-week period. Each test meal consists of a variety of commercially available foods. No experimental or test foods will be used. Volunteers must be 18-45 years old, able to eat a wide variety of foods, non-smoking, non-dieting, and not pregnant or lactating. Both overweight and normal weight females are eligible. If interested, please call 863-8482 and ask for the study coordinator. All volunteers will be compensated for their time. The principal investigator on the study is **B.J. Rolls**, laboratory director.

Grant for women

The State College Branch of the American Association of University Women is sponsoring two grants of \$2,000 each to Centre County women who qualify. Deadline for submission of applications is Feb. 15.

The **Lucretia Simmons-Vonna Jansma Project Renew Grant**, given to women who have interrupted their academic work for at least three years

and who wish to resume their studies, is available to females who have completed a minimum of one-fourth of the degree requirements for their baccalaureate or master's degrees.

Grant applications are available from **Anne Nelson** by calling 237-9059 (h) or 863-0405 (o). The grant is named in memory of two past leaders of the State College AAUW branch.

Center for Adult Learner Services accepting award nominations

The Center for Adult Learner Services at University Park is now accepting nominations for its 1996 Outstanding Adult Student Award.

Faculty, staff and currently enrolled adult students at Penn State may nominate an adult learner who has overcome obstacles to further his or her education; served as a role model for other adult students; maintained high academic achievements; sensitized the University to adult students' needs, and clearly defined short- and long-term educational goals.

To qualify for the award, a student must have started or resumed studies after the age of 24 or after having been out of high school for four years. They also must have been enrolled at University Park as a full-time undergraduate or graduate student within four months of this nomination. Undergraduates must have completed 45 credits — 30 of them at Penn State — and graduate students must have earned a minimum of 15 graduate credits. Undergraduate nominees will receive preference in consideration.

Nomination packets may be obtained by calling (814) 863-3887 or by stopping by the center at 323 Boucke Building. Completed packets must be returned to the center by Friday, Feb. 2.

New club forming

A new chapter of Toastmasters International will kick off with two demonstration meetings from noon to 1 p.m. on Jan. 18 and 23 at Redifer Commons. Toastmasters is an organization dedicated to helping people from all backgrounds learn to effectively speak, conduct meetings, lead, delegate and motivate. The demonstration meetings are designed to acquaint attendees with Toastmasters, which is a self-paced program to improve communication and leadership skills in an informal atmosphere. For more information, contact **Joy Dietz** at 863-2856 or **Jean Chamberlin** at 865-6301.

Catholic Fellowship meeting

On Monday Jan. 16, **Father Fred Byrne**, campus chaplain, will speak on "Twining with Haiti." The Penn State Catholic Faculty Staff Fellowship Group invites all new and familiar faces to join this discussion beginning at noon in 212 Eisenhower Chapel. You may bring your lunch.

Library searching hours

Now through Wednesday, May 1, the University Libraries Do-It-Yourself Searching Service will be available Monday and Wednesday evenings, 6 to 9 p.m., and Sunday afternoons, 2 to 5 p.m., in 105 East Pattee Library.

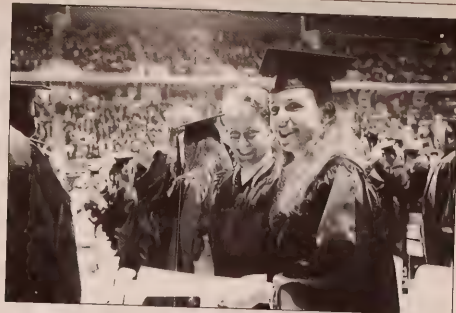
This service gives students, faculty and staff a chance to do their own computer searching using a choice of more than 150 dial-up databases in a variety of subjects. Self-study guides provide users with the basic skills needed to do searches, but for best results users are advised to consult a librarian in their subject area. For Penn State students, faculty and staff, many searches are provided free of charge.

For more information, contact the Pattee Information Desk at 865-2112 or the Search Service Coordinator at 865-3705.

Scenes from commencement



Photos: Greg Greco



Plenty of room: With graduates getting floor seating, there was plenty of room for guests during commencement exercises Saturday, Jan. 6, in the stands at the Bryce Jordan Center, left.

Excitement shows: There's no mistaking the emotions of some of the graduates attending commencement at the Bryce Jordan Center, top.

Distribution point: Everything went fairly smoothly for the first graduation held at the new Bryce Jordan Center, including the handing out of diplomas. Ann Hagerty sorts through the certificates to hand them out to graduates after the ceremony, right.



Faculty/Staff Alerts

Intercom schedule

There are 20 issues of *Intercom* remaining in the 1996 spring semester. In order to meet copy deadlines and plan for upcoming events, please keep the following schedule handy:

Date published	Copy deadline
Jan. 18	Jan. 10
Jan. 25	Jan. 17
Feb. 1	Jan. 24
Feb. 8	Jan. 31
Feb. 15	Feb. 7
Feb. 22	Feb. 14
Feb. 29	Feb. 21
March 14	March 6
March 21	March 13
March 28	March 20
April 4	March 27
April 11	April 3
April 18	April 10
April 25	April 17
May 9	May 1
May 23	May 15
June 6	May 29
June 20	June 12
July 18	July 10
Aug. 1	July 24

Child care center earns national accreditation

Four years after its inception, the child care center at Penn State Harrisburg has attained national accreditation.

The National Academy of Early Childhood Programs last month informed the center, operated by Stepping Stone Inc., that it had met its intensive criteria for accreditation. The designation makes the campus facility only one of a handful of NAECP endorsed programs in the Harrisburg area.

Licensed to serve up to 90 children a day and with an average attendance of more than 70, the campus child care center worked for more than a year to attain the accreditation, which involves the evaluation of 179 criteria focusing on every aspect of the operation. The center is directed by Melissa Bell and serves faculty, staff and students.

Health Matters

Welcome the new year by participating in a Health Matters program sponsored by Faculty/Staff Health Promotion. A cornucopia of new offerings this semester includes an evening

Weight Watchers AT WORK program, called Weight Watchers AFTER WORK, Relax and Enjoy Series, and Conscious Eating.

Old favorites returning to the schedule include Culinary Hearts, The Health Matters Series, Cart Smart Shopping Tour, Weight Watchers AT WORK noontime series, HIV/AIDS workshop and Network Update, Understanding the EAP and The Enlightening Lunch Series.

Costs, schedules, and registration forms may be found in the *Health Matters* brochure. Look for it in your campus mailbox or call the Faculty/Staff Health Promotion Office at (814) 865-3085.

HRDC programs

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog.

Presenting a Professional Image (PER 007) Meets Tuesday Jan. 16 from

8:30 a.m.-12 p.m. in 319 Rider Building; Cost: \$35.

Career Plateauing (CAR 005) Meets Jan. 17 from 5:30-8:30 p.m. in 306 Boucke Building; Cost: \$35.

Introduction to ARC/INFO (PRO 049) Meets Monday, Jan. 22 from 9 a.m.-4 p.m. in 123 Walker Building; Cost: \$60.

Negaholics: How To Handle Negativity in the Workplace (PRO 062) Meets Wednesday Jan. 24 and 31 from 1:30-4:30 p.m. in 319 Rider Building; Cost: \$55.

Marketing Communications for Beginners (PRO 060) Meets Thursday Jan. 25 from 8:30-11:45 a.m. in 319 Rider Building; Cost: \$35.

Eudora (Pop-Mail) (IBM 030) Meets Thursday, Jan. 18 from 9 a.m.-12 p.m. and Section 2 meets Jan. 18 from 1-4 p.m. in Room B Penn State Scenic; Cost: \$90.

Developing Performance Standards (LDR 014) Meets Tuesday, Jan. 23 from 9-11 a.m. in 319 Rider Building; Cost: none.

LECTURES

Business issues topic of free lecture series

The 1996 "Current Issues in Business" free lecture series presented by the Penn State Harrisburg School of Business Administration at the Eastgate Center in Harrisburg this year features:

■ Feb. 7 — **Girish Subramanian**, assistant professor of information systems, Penn State Harrisburg, "Strategic Information Systems: Current Trends and Future Opportunities."

■ March 5 — **John Muscarella**, major account manager, Sprint United, "Strategic Alliances — Foreign and Domestic: A Case Study in the Telecommunications Industry."

■ April 10 — **Jacob De Rooy**, associate professor of economics, Penn State Harrisburg, "Does Where You Work Make a Difference? Employer Characteristics and Employee Income."

■ May 7 — **Beth Witmer**, marketing analyst, AMP Inc., "Establishing a Quality Control Program: A Case Study."

■ June 12 — **Carolyn Dexter**, professor of management, Penn State Harrisburg, "Cooperation as Competitive Edge."

■ Sept. 11 — **Sudhir Nanda**, assistant professor of finance, Penn State Harrisburg, "Mergers and Acquisitions: Employees' vs. Investors' Interests."

■ Oct. 9 — **David Morand**, assistant professor of management, Penn State Harrisburg, "Organizational Culture and Employee Participation."

■ Nov. 12 — **Jean Harris**, assistant professor of accounting, Penn State Harrisburg, "Promises and Pitfalls of Changes in Tax Policies."

■ Dec. 3 — **C.M. Gallaher**, regulatory affairs director, Pennsylvania Blue Shield, "Market Trends in Health Care."

All lectures are from noon to 1 p.m. at the Penn State Harrisburg Eastgate Center, 1010 N. Seventh St., Harrisburg. To register for any of the free presentations, call (717) 772-3590.

HRDC course details effects of divorce on the children

With a divorce rate of 50 percent for all marriages in this country, more than 1 million children are affected by divorce each year. Parents often need education about how to best help their children during this significant change in their lives.

Since January 1995, **Jennifer Adams Mastrofski**, assistant professor in the Penn State Institute for Continuing Justice Education and Research, in collaboration with Centre County judges and court administrator, has administered and taught a mandatory education program for divorcing parents.

The program's success has resulted in its serving as a model for replication in other courts. Penn State staff and faculty will have an opportunity

to register for a two-part course taught by Dr. Mastrofski. "Divorce through the Eyes of Children" will be offered through the Human Resource Development Feb. 28 and March 1.

The four-hour seminar covers a variety of topics including the effects of divorce on parents and children, development of parenting plans to meet children's needs and conflict resolution. The program includes an award-winning film which demonstrates children's vulnerability during this time of great transition.

For information about registration for the court-sponsored education program, call (814) 863-0895.

For more information, please refer to the HRDC Spring Program Schedule, or call (814) 863-8216.

Conference focus is "Jesus at 2000"

"Jesus at 2000," the first national symposium commemorating the 2000th anniversary of the birth of Jesus, will be presented via satellite Feb. 9-10. The Penn State Schuylkill is a continuing and distance education service of the College of the Liberal Arts.

The two-day conference will be held on the campus of Oregon State University. The 1996 national conference will be the 27th annual symposium presented by Trinity Institute

and co-sponsored by Oregon State University.

Six internationally recognized scholars will assess the state of Jesus scholarship by exploring what can be known about Jesus of Nazareth at the turn of the millennium. The one-day registration fee is \$25, and the two-day registration fee is \$35 to view the conference live via satellite at the Penn State Schuylkill. For more information or to register, call (800) PSU-TODAY.

Affirmative action to be discussed Feb. 3

The future of affirmative action in higher education will be the subject of a Saturday, Feb. 3 program at The Penn State Scanticon.

"Affirmative Action in Higher Education: Implications of the California Decision" will be held from 9 a.m. to 3:30 p.m. at Penn State faculty, staff and administrators to discuss constitutional and humanistic issues, implications for admissions policies and academic/student affairs, and the need for policy change.

Presenters at the program, which carries a \$150 registration fee, include **James B. Stewart**, vice provost for educational equity and professor of labor studies and industrial relations; **Bonnie P. Ortiz**,

director of the Office of Affirmative Action; **Robert M. Hendrickson**, head, Department of Education Policy Studies and professor of education; **Elizabeth Cooper**, assistant professor of educational administration; **Harold E. Cheatham**, professor and head of the Department of Counselor Education, Counseling Psychology and Rehabilitation Services; **Christine E. Phelps**, assistant professor of counselor education, counseling psychology and rehabilitation services; and **W. Terrell Jones**, deputy vice provost for educational equity.

For more information about the program or to register, call (800) PSU-TODAY.

Expert to share knowledge of economics of regulation

David E. M. Sappington, Lanzillotti-McKethan Eminent Scholar — Department of Economics at the University of Florida, will present "Wealth, Ability and Entrepreneurial Opportunities" at 11 a.m. Thursday, Jan. 18, in The Gallery at the Hetzel Union Building (HUB) on the University Park Campus.



David E. M. Sappington

Dr. Sappington is an internationally recognized expert in the economics of regulation. He has published more than 70 papers and co-authored two books, the latest of which, *Designing Incentive Regulation for the Telecommunications Industry*, is soon to be published by the MIT Press.

Dr. Sappington received his Ph.D. from Princeton University in 1980. Since that time, he has taught

at the University of Michigan, the University of Pennsylvania, Princeton University and the University of Florida, and has served as the district manager of the Economics Research Group at Bell Communications Research. He is the associate director of the Public Policy Research Center and a research associate at the Public Utilities Research Center, both at the University of Florida.

Dr. Sappington's presentation is the first in the 1995-96 Seminar Series sponsored by the Department of Economics and the Institute for Policy Research and Evaluation (IPRE). For additional information, please contact Mark Wilhelm at (814) 863-7416.

Annual Service-Leadership Conference to feature writer

The keynote speaker for the third annual Service-Leadership Conference is political writer **Juan Williams**, author of the book *Eyes on the Prize: America's Civil Rights Years: 1954-1965*.

Along with Mr. Williams, six speakers from both the service and leadership arenas will be featured at the conference to be held Wednesday, Feb. 28, at The Penn State Scanticon. They are: **Mary Kay Schneider**, **Gary Bonas**, **Judi Cutley**, **Diana Bucco**, **Vicki Hoehn**, **LaVerne Fountain** and **Derek Thomas**.

A broad spectrum of programs, including theoretical perspectives of leadership, service-learning and service-leadership, will be discussed.

Registration is \$45 for professionals, \$25 for students, and includes conference materials, continental breakfast and lunch. Registration is limited to 250 participants. The conference is sponsored by the Penn State AT&T Center for Service Leadership, Pennsylvania College Compact and EOPEC. For registration forms or questions about the conference, call (814) 863-4624.

More Lectures

Astronaut Lovell to talk about Apollo 13 mission

Captain **James Lovell**, navigator of man's maiden voyage to the moon and first to visit the moon twice, will present an address at 8 p.m. Tuesday, Jan. 16, in Eisenhower Auditorium on the University Park Campus.

In 1994, Capt. Lovell wrote *Lost Moon*, the story of the courageous mission of Apollo 13. On July 4, 1995, the film version of his bestseller, *Apollo 13*, starring Academy Award winner Tom Hanks, produced and directed by Ron Howard, was released.

His talk is sponsored by the University's Programming Coordination Board Distinguished Speaker Series, formerly known as Colloquy.

Capt. Lovell is a graduate of the University of Wisconsin, the U.S. Naval Academy, University of Southern California, and the Harvard Business School's Advanced Management Program. He has received honorary doctorates from Rockhurst College, Illinois Wesleyan University, Western Michigan University and Mary Hard-Baylor College.

He has received numerous honors and awards, including the American Academy of Achievement Gold Plate Award, Institute of Navigation Award and the AIAA Haley Astronaut Award.

Capt. Lovell currently serves as president of Lovell Communications, a business devoted to disseminating information about the U.S. space program.

His talk is open to the public. For more information, contact the Programming Coordination Board at (814) 863-8951.

Chemistry lecture set for Jan. 18

Sigma Xi, the Scientific Research Society Penn State Chapter, presents a lecture by **Harry R. Allcock**, Evan Pugh Professor of chemistry, at noon Thursday, Jan. 18, in 305 HUB.

Dr. Allcock's lecture, "The Design and Assembly of New Materials From Fundamental Principles," will describe how a broad new field of materials has been created by bridging the intellectual gap between inorganic chemistry and polymer science to provide new materials for medicine, communications science and advanced engineering.

The lecture is free to the public.

Frontiers of Science lectures to focus on evolution of life

"The Origin and Evolution of Life on Earth and Elsewhere" is the topic of the spring semester 1996 Penn State Lectures on Frontiers of Science. Designed for the enjoyment and education of central Pennsylvania residents, the series of seven lectures will take place on consecutive Saturday mornings from Jan. 13 to Feb. 24, from 11 a.m. to noon, in room 104 Classroom Building on the University Park Campus.

The first lecture in the series, titled "Chemical Evolution and the Origin of Life: Protons to Proteins," will be given on Jan. 13 by **Robert D. Minard**, lecturer in chemistry and director of the Penn State Mass Spectrometry Facility. This lecture also will include a preview of the spring 1996 lecture series.

Dr. Minard's lecture concerns the building blocks of life, which can be formed under conditions thought to have existed on the primitive Earth.

Other lectures in the spring 1996 series include:

■ Jan. 20: "Cosmochemistry and the Origin of Life" by **Clifford Matthews**, professor emeritus of chemistry, University of Illinois at Chicago.

■ Jan. 27: "Conditions Necessary for Life on Earth" by **James Kasting**, professor of geosciences and meteorology.

■ Feb. 3: "Early Evolution of



**Robert D.
Minard**



**Clifford
Matthews**



**James
Kasting**



**J. Gregory
Ferry**



Life" by **J. Gregory Ferry**, professor of biochemistry and molecular biology.

■ Feb. 10: "Alien Life Forms on Earth" by **Charles R. Fisher**, associate professor of biology.

■ Feb. 17: "Where in the Universe are Other Planets That Could Support Life?" by **Alex Wolszczan**, professor of astronomy and astrophysics.

■ Feb. 24: "Latest Results in the Search for Planets Outside the Solar System" by **Alex Wolszczan**, pro-



**Charles R.
Fisher**



**Alex
Wolszczan**
professor of astronomy and astro-
physics.

The Lectures on the Frontiers of Science are sponsored by the Eberly College of Science. Parking is available at the HUB Deck parking garage on a short side road.

For more information, contact the Eberly College of Science Office of Public Information by telephone at (814) 863-8453 or (814) 863-4682, or by e-mail at science@psu.edu.

Associate professor's talk addresses Fortune of Medieval Art in America

The Department of Art History continues its lecture series, The Fortune of Medieval Art in America, with a lecture by **Elizabeth Bradford Smith**, "William Poyntell (1756-1811): First American Collector of Medieval Art," at 2 p.m. Sunday, Jan. 14, in the Palmer Lipson Auditorium of the Palmer Museum on the University Park Campus. Dr. Smith, associate professor of art history, is the guest curator of the exhibition "Medieval Art in America: Patterns of Collection 1800-1940" at the Palmer through March 3.

Philadelphia's William Poyntell was prominent among early American collectors of medieval art. While touring Europe in 1802-1803, he acquired many works of fine art. Mr. Poyntell's unpublished letters from Europe reveal the personality of a man who may be America's earliest collector of medieval art.

The lecture series is co-sponsored by the Penn State Institute for the Arts and Humanistic Studies, the Center for Medieval Studies and the Department of Art History. Other lectures in the series include: "The Study and Teaching of Medieval Art at Princeton: The influence on the Dark Ages," Sunday, Jan. 21; "Artists Love the Sanctuary of the Christian Church, and Tourists Love the Rest: Stained Glass from Chartres Cathedral at Princeton University," Sunday, Jan. 28; "The Legacy of Ornament: Searching the Glencairn Museum," Sunday, Feb. 4; "A Circle of Manuscript Collectors in Early 19th-century Baltimore," Sunday, Feb. 11; and "The Rise and Fall of Romanesque Studies in America," Sunday, Feb. 18.

All lectures are free to the public and will be presented at 2 p.m. in the Palmer Lipson Auditorium of the Palmer Museum on the University Park Campus.

Promotions

Staff

Judith L. Banker, staff assistant VII in Office of the President.

Sarah J. Barrier, staff assistant VI in College of Engineering.

Timothy J. Beckwith, manager, Network and Information Systems, in Office of Human Resources.

Joseph A. Bednarczyk, senior technician, Research, at The Hershey Medical Center.

Linda C. Bixler, staff assistant VI at The Hershey Medical Center.

Katherine C. Bloomer, coordinator, College Relations, in College of Engineering.

Mark A. Bodenschatz, project manager, in Office of Physical Plant.

Technical Service

C. D. Henning, guest room attendant at The Nittany Lion Inn.

David B. Holdridge, storeroom worker at The Nittany Lion Inn.

Randy C. Leonard, laundry mechanic at The Hershey Medical Center.

Laura A. Maney, maintenance worker, Area Landscaping, in Office of Physical Plant.

Kenneth M. Myers, stockroom clerk at The Hershey Medical Center.

Chris A. Packer, groundskeeper,

Landscape A, in Office of Physical Plant.

Kenneth H. Shope, lab maintenance technician in The Eberly College of Science.

Louis E. Smock, lab technician C at The Hershey Medical Center.

Sandra J. Snyder, food preparer B, Housing and Food Services, at Penn State McKeesport Campus.

Student computer services upgrade planned

Two hundred fifty-six new modems, 176 new Macintosh computers, 164 new IBMs and 20 new part-time lab consultants (who will make possible 100 additional consulting hours a week).

That's what student computer labs and other services run by the Center for Academic Computing (CAC) at University Park are getting early this year, thanks to a mid-budget-year infusion of funds from the University. Computer labs run by the academic colleges will also see substantial improvements.

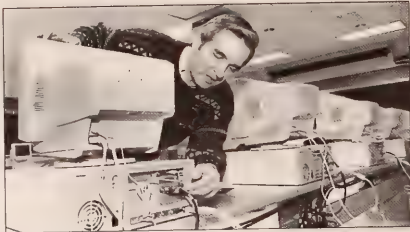
The upgrades are being made because of University President Graham B. Spanier's response to students' computing needs and because of the availability of additional funds — the increased tuition revenues brought in by higher-than-expected numbers of new students this academic year.

Commonwealth Campuses will continue to see upgrades for student computer labs through funds available to the Office of the Senior Vice President and Dean for the Commonwealth Educational System. Upgrades in technical support have also been made available at the campuses.

"Once I arrived here," Dr. Spanier said, "I quickly discovered that our labs were being overtaken by the exponential growth in student use of computers for electronic mail, word processing and other uses."

After receiving E-mail messages on the issue from dozens of students, Dr. Spanier said, "my concern grew over the course of the fall semester. I consulted with John Brighion (executive vice president and provost) and Gary Augustion (executive director of computing and information systems), and I decided that we must deploy whatever resources we could find to try to meet these increasing student needs."

Fortunately, Dr. Spanier said, tuition revenues resulting from Penn State's increased enrollments allowed the university to make a mid-budget-year allocation of \$2 million for upgrades to computer services at University Park — \$1,085 million through the Center for Academic Computing (CAC) and



New equipment

Carl Knowlman, manager of network operations in the Center for Academic Computing, examines some of the new computers purchased with a mid-budget-year allocation.

Photo: Greg Gnaeo

\$915,000 through the academic colleges.

Dr. Bright said the additional enrollment income "gave the University more money to put back into some of the more important student needs, and we're pleased that we can do this. However, we know that further upgrades are needed, and we hope that the state Legislature will provide Penn State with additional funds for improvements to all aspects of our computer services."

Mr. Augustion said the CAC upgrades build on the improvements CAC has already been making with internal funds and are consistent with the recommendations of a University study group on information infrastructure.

The 256 new CAC modems, which brings the total number of modems to 576, will benefit students and faculty members using computers outside the labs. Installation of the new modems has already begun, and could be completed early this month. Also, in early December, using a different source of funds, CAC had already installed 128 new modems at University Park.

With the skyrocketing use of the Internet, increasing the number of modems was the most critical need, said

Russell S. Vaught, director of CAC.

During peak demands there will be times when all lines will be busy, Mr. Vaught said. "But we recognize the need for further improvements and we're working to get additional funds for more modems. The ideal total number is probably about 1,000, to provide the kind of service we'd like to provide."

Other improvements to CAC labs include:

- Three hundred forty new computers — 176 Macs and 164 IBMs. Two hundred-twenty of the new machines will replace obsolete ones, so there will be a net gain of 120 "new seats." The addition of the new computers will increase to 1,058 the total number of computers in CAC-managed labs.
- Installation of the new computers was about 20 percent complete near the end of December and was expected to be about one-third complete by early this month.

- Twenty new part-time consultants. CAC is now identifying qualified students to fill these positions.

- One hundred additional consulting hours a week. Hiring the 20 new part-time consultants will enable CAC to provide additional consulting, bring-

ing the total number of consulting hours up to about 320 a week.

"What we're trying to do is provide students with discipline-appropriate experiences with information technology," Mr. Vaught said. "And we think we're doing that. In fall 1993 CAC had more than 26,000 individual users and in fall 1994 we had 51,000 individual users — and that increase is a direct result of following our strategic plan. We now have 73,650 users."

The academic colleges, plus Penn State Harrisburg and Penn State Erie, The Behrend College are planning substantial hardware and software improvements with the \$915,000 they've been allocated as a group. While these units are still working out the details, some colleges have their plans fairly well set.

The College of Communications, for instance, will be using its allocation to upgrade its New Media Center site in the Carnegie Building. The college also plans to expand its center-based community outreach programs, such as weekend courses for middle school students.

In the College of Engineering, the allocation from the central administration will be matched with funds from the college itself, and the combined amount will be used to acquire additional workstations, printers and special software for both the college-level and department-level microcomputer labs.

Throughout the University, administrators are well aware of the continuing information explosion and the continuing need to enhance funding for information services.

Dr. Spanier said Penn State "is a national leader in the use of information technologies in instruction, research and administration, and I am strongly committed to maintaining this position. We will need to expand our services and equipment significantly again over the summer to meet the growing anticipated demand for the 1996-97 academic year. This will be a key funding challenge for us, but it is one we must address."

— Alan Janesch

Committee backs University's tuition reduction program

A state House of Representatives select committee issued a report in December reaffirming its support for tuition reduction programs for college and university staff and faculty members. It recommended that the programs of other higher education institutions in Pennsylvania reflect the Penn State model of a 75 percent tuition reduction plan.

The select committee, chaired by state Rep. John Lawless (R-Montgomery County), held four meetings between August and November 1995 with college and university tuition reduction plans, the number of hours faculty spend in the classroom, travel by faculty and staff and the uses and purposes of sabbatical leaves (Intercom, Nov. 30, 1995).

The committee's Dec. 11 report, based on this series of meetings, says

that tuition reduction programs now available at higher education institutions in the state should remain the same for the institutions' current employees and their dependents. It also proposes a maximum 75 percent tuition reduction for the dependents, spouses and offspring of faculty and staff hired after June 30, 1996, or at the expiration of a faculty or employee union contract in effect at the time the report is adopted.

Under the current Penn State plan, University employees, their spouses and their unmarried children are eligible for a 75 percent discount on tuition. The benefit is not portable to other institutions and is subject to several limits. Other institutions offer reductions of up to 100 percent and allow employees to use them for programs at different institutions.

Penn State officials said they appreciated the committee's recognition that the Penn State plan is a prudent one and indicated they would respond to the committee's proposals if requested by the Legislature during the upcoming budget appropriations process. The report was forwarded to the full House for its consideration.

The House Select Committee on Higher Education has also proposed several restrictions or other regulations on sabbatical leaves, and recommended that the House Tourism Committee develop guidelines for institutions on faculty and staff travel. It further recommended that colleges and universities allocate travel cost savings to travel alternatives such as the use of interactive video, satellite links and expanded computer use.

Regarding faculty workload, the committee said it prefers to let the

higher education community develop an appropriate measure of workload. But it recommended eliminating a particular measure of teaching hours or student contact currently reported to the Joint State Government Commission, which prepares the annual Snyder Report on faculty workload.

During the committee's meetings, University President Graham B. Spanier and Executive Vice President and Provost John A. Bright were among the representatives from a number of institutions who testified that tuition reduction programs and others are important to the institutions and to the state and urged the committee not to propose restrictions on them. Penn State's tuition discount program helps attract and retain high-quality faculty and staff and boost the quality of the state's current and future work force.

Medieval art exhibit explores collectors' motives

New Yorkers John D. Rockefeller Jr. and J.P. Morgan did it. As did Boston's Isabella Stewart Gardner. Philadelphia's Raymond Pitcairn was a major player as was Bellefonte-born George Grey Barnard. These distinguished Americans assembled medieval art collections in the 19th and 20th centuries that formed the core of major museum collections east of the Mississippi River. Why did they collect medieval art? Elizabeth Bradford Smith, associate professor of art history, explores this question as the guest curator of the Palmer exhibition, "Medieval Art in America: Patterns of Collecting 1800-1940."

"Medieval Art in America" is an overview of the collecting of medieval art in this country from 1800 to 1940, the year of the first comprehensive show of medieval art in America," Dr. Smith said. "We've limited our exhibition to objects from the core of the Middle Ages—800 to 1400. We used several criteria to select which objects to exhibit. Some illustrate the patterns of collecting we've identified, while others are intended to reflect those forces which seem to have shaped these patterns."

The first challenge Dr. Smith and her team of student researchers faced was establishing what was collected, when and by whom.

"We began by putting together a checklist based on a survey of medieval art in the eastern and central United States. None of these collections published a complete catalogue or checklist of their medieval holdings; we were forced to rely on museum bulletins, special exhibition catalogues and media-based inventories."

In addition, the researchers consulted museum files whenever possible. "With these resources we catalogued more than 1700 works—enough to provide a basis for establishing the general patterns of collecting within our time frame," Dr. Smith said.

Not only did Dr. Smith and her team build a file of medieval works in American collections, they prepared profiles of individual collectors and curators, histories of



Elizabeth Bradford Smith, associate professor of art history and guest curator of "Medieval Art in America: Patterns of Collecting 1800-1940," hangs an information card for the exhibition.

Photo: Greg Grieco

FILMS

- Jan. 13: "Europe in the Middle Ages: The Birth of the Middle Ages"
 - Jan. 20: "Europe in the Middle Ages: The City of God"
 - Jan. 27: "Europe in the Middle Ages: Charlemagne and the Holy Roman Empire"
 - Feb. 3: "Europe in the Middle Ages: The Feudal System"
 - Feb. 10: "Europe in the Middle Ages: Christians, Jews and Muslims in Spain"
 - Feb. 17: "Europe in the Middle Ages: Byzantium—From Splendor to Ruin"
 - Feb. 24: "Cathedral"
 - March 2: "Castle"
- Films are shown at 2 p.m. in the Palmer Lipson Auditorium.

the museums housing the surveyed collections and researched the artistic, intellectual and cultural context of the time.

"We looked for evidence of continuity and of change in the emphasis and direction of collecting, and for the reasons behind these choices. It's our aim to identify and examine, where possible, moments when the direction of collecting changed course," Dr. Smith said. "What was the impact of a specific lecture or exhibition? How influential could a single scholar, curator, dealer or collector be? These are some of the questions that this exhibition is intended to explore."

What "Medieval Art in America" brings to the viewer is the realization that no single reason can be given to explain the collecting patterns

of the Americans who collected medieval objects. The forces which motivated them were numerous and tended to change with the intellectual and social climate of the day.

In the 19th century, most Americans who acquired medieval art owned only a few pieces, having collected them as souvenirs of trips to Europe, as ornaments for their medieval revival homes, or as preludes to the art of the later Renaissance period.

By the late 19th and early 20th centuries, newly-founded American public art museums acquired samples of medieval art, sometimes in the form of casts and copies, to serve as models for contemporary artisans.

In the 20th century, most collectors who acquired medieval art did so to form encyclopedic collections,

which would serve to illustrate the rise and fall of civilization.

"They saw their possessions as ultimately becoming a public trust," Dr. Smith said. "But while they lived, their collections may have helped to create princely environments for these magnates. They also publicly demonstrated their taste and sense of noblesse oblige by donating or lending their collections to public institutions."

Within these major divisions the objects are organized into thematic groups that explain particular issues and collectors' motivations.

"These collectors serve as conduits to lead the American public of the 1990s to the arts of the Middle Ages," Dr. Smith said.

For those interested in the history of taste in America, this exhibition will provide an opportunity to understand why these works of art were desirable. At the same time, the 72 works of art in the exhibition will bring museum-goers an appreciation of the distinctive beauty of the art of this period.

"When it's all said and

GALLERY TALKS

Collecting Medieval Art in America

- Jan. 12, 1:30 p.m., Sarah Andrews.
 - Jan. 13, 1 p.m., Aaron Rottner.
 - Jan. 20, 1 p.m., Beth Lombardi.
 - Jan. 25, 7 p.m., Beth Lombardi.
 - Jan. 27, 1 p.m., Marshall Price.
 - Feb. 1, 7 p.m., Sarah Andrews.
 - Feb. 8, 7 p.m., Aaron Rottner.
 - Feb. 11, 1 p.m., Marshall Price.
- All talks are given by graduate assistants in Christoffers Lobby.

LECTURES

Lectures on "The Fortune of Medieval Art in America" begin at 2 p.m. in the Palmer Lipson Auditorium.

- Jan. 14: William Poyntell (1756-1811): First American Collector of Medieval Art? By Elizabeth Smith, associate professor of art history
- Jan. 21: The Study and Teaching of Medieval Art at Princeton: The Influence of the Scottish Enlightenment on the Dark Ages. By Betty Rosasco, associate curator, The Art Museum, Princeton University
- Jan. 28: "Artists lose the sanctuary of the Christian Church, and to visit love the rest": Stained Glass from Chartres Cathedral at Princeton University. By Mary Shepard, museum educator, The Cloisters, The Metropolitan Museum of Art
- Feb. 4: The Legacy of Ornament: Searching in the Glencairn Museum. By Michael Cotner, professor of art history, Swarthmore College
- Feb. 11: A Circle of Manuscript Collectors in Early 19th Century Baltimore. By Pamela Henzik, assistant professor of art, York College of Pennsylvania
- Feb. 18: The Rise and Fall of Romanesque Studies in America. By Edson Armi, professor of art history, University of California at Santa Barbara

done," Dr. Smith said, "these Americans collected, in part, perhaps simply because they found medieval art beautiful."

The exhibition is sponsored by Mellon Bank. Additional funding was provided by the National Endowment for the Arts, the Samuel H. Kress Foundation and the College of Arts and Architecture.

—Mary Anna Miles

ATHLETICS

A regular column provided by Intercollegiate Athletics

Ticket office

Penn State's athletic ticket office has set up shop in the new Bryce Jordan Center. The office is located on the Curtin Road side of the Jordan Center and customer parking is available in front of the facility. Ticket director **Bud Meredith** said the new office will have 10 sales windows, two Will Call windows and an 18-station phone room to handle event sales. There also are two sales positions at each of the four main entrances to the arena. The first athletic event in the Jordan Center is a men's basketball game with Minnesota tonight.

Academic recognition

Thirty-nine Nittany Lion and Lady Lion student-athletes have been named to the 1995 All Academic Big Ten team for fall sports. To be eligible, student-athletes must be letterwinners in at least their second academic year and carry a career grade point average of 3.0 or better. Two football players, guard **Jeff Hartings** and quarterback **Wally Richardson**, have been named to the GTE Academic All-District team. They are among the Penn State fall athletes who made Academic All-Conference.

All-America honors

Offensive lineman **Jeff Hartings** has made several first-team All-America squads, becoming in the process a member of a very exclusive club. He is only the 10th Penn State football player to be selected as a first-team All-America in consecutive years. The last was **Steve Wisniewski** in 1987-88.

"Player of the Year"

Terri Zemaitis, a 6-foot-2 middle hitter from Downers Grove, Ill., was named Big Ten Conference volleyball "Player-of-the-Year." She is the third Lady Lion to win the honor, following in the footsteps of **Leanna Kling** (1992) and **Salma Davidson** (1993).

CARPOOLERS

Would like to carpool from Lock Haven area to University Park. Work hours are 8 a.m.-5 p.m. Monday through Friday. Call **Connie** at (814) 863-0297 or (717) 726-7144.

Looking to join or form a carpool from the Lamar/Mill Hall area to University Park. Work hours are 8 a.m. to 5 p.m. Monday through Friday. Call **Linda** at 865-1367.



Generosity abounds

Loading approximately \$400 worth of toys into a van before the holiday break are **Chuck Addelman**, food preparator A, **Pollock Dining Commons** left, and **Jim Hopley**, manager of food services, **Pollock Dining Commons**. In the spirit of the season, Housing and Food Services workers from **Pollock Commons** opted to forego a gift exchange and instead donated toys to support the "Toys for Tots" program. The program, sponsored by the Marine Corps Reserve, identifies needy children and makes sure they get at least one new toy for the holiday.

Photo: Greg Grieco

LSC accepting applications for graduate program director

The University's Life Sciences Consortium (LSC) seeks an individual for the position of director of LSC Graduate Programs.

The LSC is a newly formed organization with the objective to promote as well as innovation, in undergraduate and graduate education. The Penn State LSC graduate program participants are faculty members of the colleges of Medicine, Agricultural Sciences, Health and Human Development, Engineering, The Liberal Arts and the Eberly College of Science.

Candidates must have a Ph.D. in a life science discipline, as well as experience in research and teaching. Some

administrative experience is desirable, but not essential. The successful candidate will have a keen interest in developing new approaches to graduate education.

The director will work with faculty directors of interdisciplinary, intercollege graduate programs to develop active group-centered learning curricula and establish liaisons with business, government and other organizations to create innovative learning and research opportunities for students. The director will organize and oversee graduate student recruitment, as well as be responsible for coordinating student activities both at the University Park and The Hershey Medical Center campuses.

Depending on the candidate's previous background, the appointment will be either wholly within the LSC or a joint appointment with a college appropriate to the candidate's scientific interests. Continued involvement in research or teaching is encouraged.

Applicants should submit their curriculum vitae, a brief summary of their experiences and interests most relevant to the present position, and three letters of recommendations to **Nina Federoff**, Life Sciences Consortium, 519 Wartik Laboratory, The Pennsylvania State University, University Park, Pa. 16802.

Applications will be reviewed as received and until the position is filled.

PENN STATE INTERCOM

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312 Old Main, University Park, PA 16802 Phone: 865-7517
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January 18, 1996

Volume 25, Number 18

President's tour keeps moving

The president's statewide tour is rolling along vigorously and ready to begin the next phase of reaching out to Pennsylvanians throughout the Commonwealth.

This fall, President Graham B. Spanier made intensive one-day visits to 10 University locations and one to the city of Philadelphia as part of the tour. In addition, he made two stops at Penn State Harrisburg and several visits to The Hershey Medical Center. The spring schedule looks equally busy. The tour continues Tuesday, Jan. 23, with Dr. Spanier's first visit of the new year to the Penn State McKeesport Campus.

The tour is part of the president's statewide initiative to rededicate the University to the people it serves and

to reinforce Penn State's commitment to its diverse constituency. The visits also provide opportunities for citizens to express their views and increase their understanding of Penn State and higher education in general.

Each visit is usually full of meetings with campus administrators, faculty and staff; students and advisory boards; a lunch with local business people or a community group; a visit to at least one high school; a visit to a Cooperative Extension office; a meeting with the area media or a local newspaper editorial board; a reception with local alumni; and a dinner with key donors.

See "Tour" on page 3

1996 Tour Schedule

Tuesday, Jan. 23	McKeesport Campus
Thursday, Jan. 25	Allentown Campus
Thursday, Feb. 1	Berks Campus
Thursday, Feb. 6	New Kensington Campus
Thursday, Feb. 15	Great Valley
Thursday, Feb. 29	Penn State Harrisburg
Weds., March 20	Worthington Scranton Campus
Thursday, March 21	Wilkes-Barre Campus
Weds., March 27	City of Pittsburgh
Weds., April 10	York Campus
Thursday, April 18	Abington-Ogontz Campus

When the going gets tough, the tough get going

When Lisa Wandel woke up well before the sun on Jan. 8 and looked out her window to see that 18 inches of snow had pounded the Centre region, her first thought was not whether she should go back to bed. It was work—she had to get there.

As associate director of Food Services on the University Park Campus, Ms. Wandel and her staff had hungry mouths to feed.

While some of us may have slept through the "Blizzard of '96" and even relished the day off that the heavy snowfall brought to every campus in the Penn State system, others had a serious job to do.

"You jump out of bed and you get to work as quickly as you can," Ms. Wandel said. "You bag the suit, don't iron your clothes and get there to serve 13,500 people who are relying on you, breakfast, lunch and dinner."

Bob Hoffman, assistant manager at the Dairy Production Research and Education Center, also had mouths to feed. His charges—more than 300 cattle and milking cows—can get mighty ornery if they miss a feeding.

"If you weighed 1,500 pounds and ate about 80-100 pounds of feed a day, you'd get pretty hungry if you had to go without food," he said.

In addition to feeding, all of the cattle need about 15 gallons of water a day and about 125 in the herd needed milked.

Employees like Ms. Wandel and Mr. Hoffman are



Piled high

The weather was the topic of discussion for all Penn State locations recently as the "Blizzard of '96" and subsequent storms tore across the Commonwealth, dumping up to three feet of snow in some places. The scene above, taken on Orchard Road at University Park, could have been taken at just about any of the 23 University locations.

Photo: Greg Grieco

See "Blizzard" on page 13

Inside



Medieval Art lecture

In conjunction with the exhibition "Medieval Art in America" at the Palmer Museum, a lecture series is planned. See page 8 for details.



On the air

A new live television segment should give Penn State more visibility during half-time at major sporting events. See page 14 for story.

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DIVERSITY

Library help is available for the disabled

The library can be an overwhelming place for any student confronting the vast holdings of both print and electronic information for the first time. But imagine if you can't read call numbers on the books or lack the mobility to access the stacks to retrieve them. But help is available.

Since the 1970s, the University Libraries has provided disabled students with special services to ensure they have full access to library materials. Together with the Center for Academic Computing (CAC), the Libraries furnishes special equipment to help the visually impaired. There are personal readers that convert print into synthesized speech, computers that magnify print for the visually impaired, Braille printers and tape cassette player-recorders among many other electronic devices. There also are specially-adapted keyboards for those in wheelchairs.

There are people who help as well.

Volunteers from outside agencies record readings of textbooks and other materials. Staff in photoduplication enlarge magazine pages for easier perusal.

Harold Woodruff, the person responsible for the coordination of these numerous services, noted that most students he works with are learning disabled, such as dyslexic people who are print-impaired, but the people he spends the most time with are the blind and visually impaired.

One visually impaired student who uses the services extensively is Raghu Nagabushan, an international business major from Bangalore, India. While he was able to keep up his studies in India, Raghu wanted to have greater access to computers and other technology and to lead a more independent life. He found that opportunity at Penn State.

Health and Human Development is newest member of WISE institute

The College of Health and Human Development has joined the University's Women in the Sciences and Engineering (WISE) Institute, broadening the base for research, information exchange and action for and about women in the sciences and engineering at Penn State.

"We have a long history in the College of Health and Human Development of women being engaged in various scientific areas and doing exciting scientific research projects of great consequence," Barbara M. Shannon, dean, College of Health and Human Development and professor of nutrition, said.

Health and Human Development joins the colleges of Agricultural Sciences, Earth and Mineral Sciences, Engineering and Science in its participation in the WISE Institute, and has named Lynne Vernon-Feagans as its representative to the WISE Network Executive Committee. Dr. Vernon-Feagans is associate dean of research in the College of Health and Human Development and professor of human development.

The WISE Institute was founded in 1994 by the provost at the initiative of women and men in science and engineering. The institute is the culmination

"H&H's association with the WISE Institute will increase our opportunities to interact with other women students and faculty across the university."

Barbara M. Shannon
dean
College of Health and
Human Development

of work begun in 1992 during a conference sponsored by the Committee on Institutional Cooperation, the academic arm of the Big 10, on women in science and engineering. Its purpose is to coordinate information, research and activities on women in the sciences and engineering at Penn State. The institute focuses on recruitment and retention of women students, faculty, technical staff and administrators and combines interdisciplinary research with intervention programs.

"H&H's association with the WISE Institute will increase our opportunities to interact with other women

students and faculty across the university," Dr. Shannon said.

The WISE Institute is comprised of the WISE Network Executive Committee, the WISE Network and the WISE Institute Advisory Board all coordinated by WISE Institute director Londa Schiebinger, professor of history and women's studies; and Mary Jane Irwin, professor of computer science and engineering, an associate director and WISE Network Chair.

The WISE Institute office is in 510 Classroom Building. In addition to the network activities, the WISE Institute is conducting preliminary research on retention rates, perceptions, the campus climate and mentoring of women at the University. This project will hopefully lead to a series of climate/diversity training workshops aimed at faculty, staff and graduate students.

The institute also sponsors a lecture series to promote scholarship in women in the sciences and engineering, courses on gender and science/engineering through the women's studies program, orientation programs for new women students, student and faculty mentoring programs and a variety of recruitment programs.

Diversity brown-bag discussions held monthly

Since its creation in 1988, the University Libraries' Diversity Committee has been striving to enhance the climate of the Libraries to allow for greater sensitivity to cultural differences and a strong support for diversity. Appointed by the dean, members of the committee work with other units of the Libraries to foster communication of diversity matters.

One way the committee has undertaken this charge has been through the coordination of diversity "brown-bag" discussions. Once a month, about 50 faculty and staff gather, usually over lunch, to gain information and share ideas on matters of diversity.

"I really enjoy the brown bags

because we all get to talk informally," Katie Clark, acting chief of Reference and Instructional Services, said. "I also like it because they bring people from all over the Libraries together. I think we gain a lot just by spending time with people from other units."

In the past, speakers from across the University community have discussed issues relating to people with disabilities, political correctness, challenges to affirmative action, respecting people's religious beliefs, and gay, lesbian and bisexual concerns. The committee also works with the Libraries' Wellness Committee on issues such as body image and health topics.

Topics for the brown bags are often

decided based on events happening both locally and nationally, according to Cindy Faries, co-facilitator of the committee. For instance, a presentation on discrimination against people with AIDS was scheduled during the same week the AIDS Memorial Quilt was shown on the University Park Campus. Once a semester, the committee organizes an open discussion on diversity to allow ideas and opinions to be voiced on various topics that may need to be addressed in the future.

Some ideas for future discussions include ageism, gender and technology, sexual harassment and international students' perceptions of the Libraries.

25-year Awards



Observing 25 years of service at the University are, from left, Carol B. Harnes, assistant manager of health information, and Valerie T. Miller, staff assistant VI, Division of Nursing Education and Professional Development, both at The Hershey Medical Center; and Dean Amick, field operations manager for the Dairy Herd Improvement Association, on-hoard worker and machine operator at the Fruit Research and Extension Center; Charles Gale, extension agent in Columbia County; and George Hargrove, professor of dairy science, all in the College of Agricultural Sciences. Not pictured is Joan M. Everhart, staff assistant IX in the Ben Franklin Technology Center, Office of the Senior Vice President for Research and Graduate Education.

Tour

continued from page 1

Linda Higginson, assistant to the vice president for the Commonwealth Educational System, who has been overseeing the logistics of each visit in conjunction with the campus executive officers, said the response to the visits from the campus community and the surrounding communities has been tremendously positive.

"At many of the luncheon meetings, the president has been raising people's consciousness about the realities of higher education funding, Penn State in particular," Ms. Higginson said. "But also, he has been aware of what each community needs, based on research provided by the Office of University Relations' Marketing Department. He has stressed the relationship between economic and human development, and the fact that Penn State can and wants to work with each community in addressing their needs."

So far, Dr. Spanier believes his visits have been well received.

"I have been exceptionally pleased with the positive character of response to my visits and with the warm welcome given me by our Commonwealth Campuses and the communities they serve," he said.

Although not easily measured, some of the benefits to a campus that a visit by a Penn State president brings are more intrinsic — like greater prestige and visibility in the community.

"The public relations value to a campus can't be measured, nor can the goodwill it generates," Albert Skomura, campus executive officer for Penn State Harrisburg, said.

The chamber of commerce lunch here alone attracted 300 people from a cross section of the community, which is unusual.

Stephen Sheetz, a Penn State trustee and a member of the Altoona Campus advisory board, noted, "The whole Altoona community looked forward to the president's visit. They walked away from the meetings feeling that they got to know the president and they were tickled that he elected to spend some time with them. Dr. Spanier was open to hearing what the people of Altoona wanted to do in regard to the Altoona Campus."

"Dr. Spanier has opened lines of communication through E-mail and taking calls from people who have something to talk about," said Mr. Sheetz, chairman of Sheetz Inc., a major convenience store chain. "He's off to a great start in his presidency."

Other civic and business leaders also praised Dr. Spanier's efforts to develop stronger partnerships with communities statewide.

"At a luncheon of 30 to 40 business executives from Philadelphia-based companies, he was articulate and energetic," Walt D'Alessio, a Philadelphia businessman and a member of the executive committee of the Greater Philadelphia Chamber of Commerce, said. "His strongest points included talking about the size and depth of all of Penn State's activities, including its 76,000 students and 23 campuses. People tend to lose track of the extent of the branch campus system. He gave us a better understanding of the University and the extent of its activities. In turn, we provided him with a better understanding of our business community and its needs."

In western Pennsylvania, John Holliday, president and chief executive officer of the Shenango Valley Chamber of Commerce, said Penn State's current president knows what the University needs to do to succeed in the future.

"He is doing a complete, thorough analysis of the University, similar to what many corporate executives do of their business," he said. "I'm hopeful he realizes the significance of the Shenango Campus in the valley and the community it serves. We'd like him to come back and talk to us some more."

Coming up

On Jan. 23, President Spanier will visit the University's western Pennsylvania campus in McKeesport. Brief information about that campus follows:

FAST FACTS ABOUT McKEESPORT CAMPUS

Founded: 1956

Service area: Allegheny, Washington and West Moreland counties

CEO: JoAnne E. Burley

Enrollment: 878

Key programs: Offers associate degrees in sciences, business administration, letters arts & sciences and three engineering programs: mechanical engineering technology, electrical engineering technology and telecommunications engineering technology. In addition, offers the first two years of most of the 180 baccalaureate degrees offered by Penn State.



Taking it all in

President Spanier (right) listens to concerns of Cooperative Extension agents during his Dec. 1 visit to the Beaver Campus. His statewide meetings continue through the spring.

Photo: Kevin R. Cooke/Graule Studios

For 50 to 60 high school students from Chester High School near Philadelphia, meeting a university president was a unique event.

"These kids don't have a lot of exposure to university president-types face to face," Joanne Manning, superintendent of the Chester Upland School District in the city of Chester, said. "What stood out for me was that he shared some of his background and challenges and the importance of a good education. These students are facing challenges everyday. They asked for more such events and, as a result, we're having a president of a university or a representative come to visit regularly."

Closer to home, for Penn State campus faculty, staff and students, it is an opportunity to ask questions and voice concerns about a wide variety of topics, ranging from academic programs to funding issues to non-traditional student needs.

"I am very optimistic about the future of our Commonwealth campus system," Dr. Spanier said. "The depth of student, faculty, staff and community commitment to our campuses is incredible, and it can't be felt without experiencing it first hand."

—Vicki Fong

Spanier named to national post

President Graham B. Spanier has been appointed to serve on the Kellogg Commission on the Future of State and Land-Grant Universities.

The National Association of State Universities and Land-Grant Colleges received a \$1.2 million grant from the W.K. Kellogg Foundation this fall to define the direction these flagship universities must take to meet the challenges that higher education will face in the next century.

"The state and land-grant universities like Penn State have created tremendous opportunities for social change in this century," Dr. Spanier said. "Now we must reorganize and refocus our mission to respond to and shape the national and international social, economic and financial changes that we will face in the coming years."

The commission is comprised of presidents from 20 state and land-grant universities. A fundamental premise underlying their work is that in the next century the public service and outreach role of the university will be its central obligation and that the culture of universities must reflect this obligation.

According to NASULGC, a major priority for the commission will be to examine the university culture, especially the traditional higher education reward system that tends to emphasize individual entrepreneurial work, often to the neglect of the outreach and public service mission of the state and land-grant university.

Key issues the commission may address include such topics as tenure and reward system; creativity and scholarship; issues that face urban universities in particular; the role of elementary and secondary education through lifetime learning as a higher education responsibility; higher education's international educational obligations; and the undergraduate experience.

The Kellogg commission's activities will include a series of working conferences, whose content will be widely publicized through commission reports containing recommendations, guidelines for change and action agendas for accomplishing change.

John V. Byrne, retiring president of Oregon State University is the commission's director; E. Gordon Gee, president of The Ohio State University, is the commission chair; and Dolores R. Spikes, president of the Southern University System, is vice chair. Also a member of the commission is Samuel H. Smith, president of Washington State University and former dean of Penn State's College of Agricultural Sciences.

The commission will be assisted by an advisory council of national leaders in fields familiar with the role of universities in society, which is made up of former university trustees, business leaders and public officials.

The first full meeting of the commission is scheduled for Jan. 29 and 30 in Washington, D.C., with opening remarks by Kellogg Foundation President William Richardson, former president of Johns Hopkins University and former provost of Penn State.

LECTURES

Two to speak on developmental intervention

Two distinguished researchers in the field of developmental intervention will present lectures at the University Park Campus this spring as part of the Edna P. Bennett Lecture Series on Developmental Intervention. The series, sponsored by the Department of Human Development and Family Studies, highlights nationally known scholars whose work focuses on current advances in methods for enhancing personal and family life.

Funding for the series comes from an endowment established by Penn State alumni Edna P. and C. Eugene Bennett. The main purpose of the Bennett's \$1.5 million gift is to establish an endowed chair in intervention research in the Department of Human Development and Family Studies.

Scheduled speakers are:

■ **Edward Zigler**, Sterling Professor of psychology at Yale University, will speak on "Head Start: The Confluence of Social Science and Social Action" at 4 p.m. Monday, Jan. 22, in the HUB Gallery.

■ **Edward Seidman**, professor of psychology and coordinator of community psychology at New York University, will speak on "Normative School Transitions among Poor, Ethnically Diverse Urban Adolescents: Implications for Preventive Interventions" at 4 p.m. Monday, April 1, in the Living Center of the Henderson Building.

Each talk will be preceded by a reception at 3:30 p.m. and is open to the public. For more information about the series, contact **Sheila Bickle** at (814) 863-0241.

"Cosmochemistry" topic of next science lecture

The second lecture in the Penn State Lectures on Frontiers of Science series "The Origin and Evolution of Life on Earth and Elsewhere"

is "Cosmochemistry and the Origin of Life," to be given on Jan. 20, by **Clifford Matthews**, professor emeritus of chemistry from the University of Illinois at Chicago.

Dr. Matthews will

describe how the matter of the early universe evolved from the initial simple material released by the Big Bang into the abundance of elements on the earth today, including those elements essential for the existence of life.

The lectures, which are all held on Saturdays at 11 a.m., are designed for a lay audience and are sponsored by the Eberly College of Science. Parking is available at the HUB Deck parking garage on Shortledge Road. For more information, contact the Eberly College of Science Office of Public Information by telephone at (814) 863-9453 or (814) 863-4682, or by E-mail at science@psu.edu.



University looks to replace old IDs with newer, high-tech electronic cards

The University plans to replace its 18-year-old student identification system and has appointed a committee of faculty, staff and students to review the needs that should be met by the new one.

"The current student ID system is limited and locks the University into hand-processing a wide range of information that today's technology can process quickly and efficiently," said Gary Schultz, senior vice president for finance and business/treasurer.

The new technology, already being used at other institutions such as the SUNY system in New York, The Ohio State University, the University of Michigan and Indiana University of Pennsylvania, will provide a broad range of additional benefits to students. Current Penn State ID cards are used as identification at campus events, the library, and recreational services, security access in laboratories and residence halls and as an access card for students enrolled in campus meal plans.

New ID cards also might allow the University to quickly transfer scholarship and refund checks electronically, saving the University more than \$120,000 in check processing each year for the approximately 60,000 refund checks that are issued annually. This would give students immediate access to their funds.

Better security may be one of the more interesting features of a new card, since students would no longer have to worry about having to find time to cash a check or deposit it in person, or risk losing cash if they do not have a bank account.

"A new system also would allow us to streamline a process disliked by everyone," **Tom Gibson**, assistant vice president, Auxiliary Services, said. Currently, students, faculty and staff have to be photographed on campus, and wait several weeks

while the film is processed off campus before they receive their card. If a card is lost, the process has to be repeated.

The new system would allow students to receive their card on the spot and even get a second chance if the photo's not to their liking.

The review committee is looking at other ID card options, such as using it as an electronic voting card for campus elections as well as a number of banking services, such as using the card to pay for books and supplies, copiers, washers and dryers and vending machines on and off campus. Other applications might give students access to telecommunications and computer services, allow them to pay for events, parking, and tuition, and allow them to register for courses, change addresses and give them immediate access to their own academic records.

"The technology is in place to encode a wide range of services, but such a system would require a banking partner," Mr. Gibson said. "We also would want to work with local businesses to make the card as broadly applicable as possible." Committee members will discuss the feasibility of a new ID card with local banks and businesses and hope to come to a decision on whether or not to proceed this winter. It would take more than a year to put the system in place.

"Such a card could have tremendous benefits for the institution. Direct depositing, for instance, would keep more money working for the University longer, and it may even be possible to recover the cost of re-carding the University community by developing partnerships with the banking and business communities," Mr. Gibson noted. "We would be able to reduce our administrative costs and, because of the ease of the transactions, they would increase their business with students."

Highlight on Undergraduate Education

Freshman course teaches skills and methods of science

Small class size, an interdisciplinary environmental theme and professors, department heads and the dean as instructors, mark the new Freshman Seminar in the College of Earth & Mineral Sciences as not just another introduction to college life.

Rather than learn about the health center, coping with new roommates and freshman wright gain, these students are using computers, accessing the Internet, drawing graphs and working in groups. All this occurs within the context of an interdisciplinary project that appeals to majors in geography, geosciences, mineral economics, materials science and engineering, mineral engineering, environmental science and meteorology.

"Environmental problems are a good area for the students to explore because they are complex and encompass scientific, engineering, political and economic difficulties where there are no obvious easy solutions," **John A. Dutton**, dean of the College of Earth & Mineral Sciences and professor of meteorology, said.

"This is an introduction to the real complexity of the contemporary, fast-paced world they are going to be dealing with the rest of their lives."

Instituted in fall 1995, every incoming freshman in the College of Earth & Mineral Sciences at the University Park Campus is required to take the Freshman Seminar. Most also are taking a freshman English course, a math course and one or two introductory science courses. Many classes tend to be large.

"I hope this course will give students a frame-

work to think about where they fit in," **Abraham S. Grader**, associate professor in the department of mineral engineering, said.

Judging by his students, Dr. Grader is on the right track. In class, they are alert and participate and are not only willing to speak up, but to argue as well.

"We are learning that science isn't absolute, that there are questions we don't know the answers to yet and questions we may never be able to answer," said **Cara Doud** of Laurenceville, Pa., who will probably study geosciences. Ms. Doud was a student during the fall semester. "In high school they present science as if everything were known and absolute. Avrami (Grader) tries to tell us that change is what science is about."

Frequently students don't have a chance to tackle courses in their own discipline until they are sophomores or juniors, noted **Joe Schall**, writing tutor in the college and an active participant in the course.

"This course not only lets the students explore real issues, but it gives them a faculty friend in the college they can talk to, ask advice from and recognize as an ally," Schall said.

The seminar also exposes the students to peer learning, writing, computers, graphics, the Internet and group cooperation. Educators stress the portability of the skills and concepts they are teaching. Because of the high faculty to student ratio in the College of Earth & Mineral Sciences, a course like this with approximately 15 students per section can accommodate the 130 freshmen at University Park.

Faculty Staff Club offers more than good food

Harold Cheatham often goes to lunch at the Penn State Faculty Staff Club when he's not hungry.

"I go there quite intentionally even though I'm not especially hungry," says Dr. Cheatham, head of Counseling and Rehabilitation Education in the College of Education.

"Having lunch at the faculty staff club provides an opportunity to meet people from throughout the University and gives me varied, and even opposing, perspectives on various issues."

"The people with whom I interact at lunch offer a broad range of ideas and interests. It is very important for me as an instrument of socializing in a large university."

The weekday buffet luncheons—offered at a bargain price in the Penn State Room of the Nittany Lion Inn on the University Park Campus—are the key ingredient of the relatively young club, now in its fourth year.

"The buffet menu is outstanding and, financially, a real bargain," said Howard G. Knuttgen, director of the Center for Sports Medicine.

"But the primary feature that attracts me is the provision of tables for eight places that increase the opportunity to meet faculty members and other University personnel. It has become, for me, an excellent vehicle for enhancing contacts throughout the University community."

"I get to lunch at the faculty staff club two or three times a week. And, almost every time, I meet someone I haven't met before. It makes for a fascinating interlude in the day. My contacts throughout the University have been broadened immensely through this club."

Formation of the Penn State Facul-



Just desserts

Sandy Edwards, Penn State Faculty Staff Club vice president, and George J. Bugyi, executive secretary, Faculty Senate, enjoy lunches at the Nittany Lion Inn as part of their membership in the Faculty Staff Club.

Photo: Greg Grieco

ty Staff Club got its impetus from Barton Browning, associate professor of German and past chairman of the University Faculty Senate.

"The club was formalized under the leadership of Al Turgeon and experienced tremendous growth in membership under his presidency and that of Sally Kalin," said George J. Bugyi, executive secretary of the Senate and current club president.

"We are now in a real mode of expansion. With a membership drive under way, we hope to expand our membership from 550 to 700. We are a club inclusive to all faculty, staff and retirees from all campuses of the Uni-

versity and are striving to make ourselves as available as possible."

According to Sandy Edwards, club vice president, the current faculty/staff club came into being with Penn State's entrance into the Big Ten and the recognition that it was the only Big Ten institution without a club.

"We then had the opportunity to start fresh and meet 1990s needs and not be hampered by the past," she said. "We took what we thought the campus community was looking for and designed the club."

"We were able to visit other clubs and found them to be very expensive

because they usually are supporting a large infrastructure. We took a creative approach by using existing resources."

The result is a faculty staff club that is more actively-driven than location driven, according to Dr. Bugyi.

"We have made strides because of membership input," he said. "By being responsive to their ideas, our members are helping us design the club. At the same time, we have gotten tremendous assistance from Jim Purdum, general manager of the Nittany Lion Inn, and his staff. The Inn has been a very generous partner and given the club a sense of place where activities are held."

In addition to the luncheon buffet, which is available at a cost of \$4.99 from 11:30 a.m. to 2 p.m. Monday through Friday when classes are in session, the club offers a number of special Third Thursday events. In the past, these have included Greek Feast, Oktoberfest, Austro-Hungarian Celebration, English Pub Night, Evening at the Palmer Museum, Caribbean Cruise, Mardi Gras and Boston Pier Party.

The annual membership fee is \$25 and new members get two free lunches for joining. The Penn State Faculty Staff ID serves as a membership card and as method of payment for club activities. Membership information is available by contacting the Faculty Staff Club, 110 HUB, University Park, Pa. 16802, telephone (814) 865-7590.

One indication of the club's early success is that it has been selected to host the 1997 meeting of the Association of Faculty Clubs International.

—Bill Campbell

Harrisburg to offer new Honors Program

An Honors Program is coming to Penn State Harrisburg. Unveiled last month, the program is designed to offer a more in-depth and diverse learning experience for qualified students.

A brochure announcing the program has been printed and will be circulated to Commonwealth Educational System locations as well as community and junior colleges.

Open to both current and incoming undergraduate students, the Honors Program will be directed by Glen Mazis, assistant professor of humanities and philosophy.

Serving on the Honors Program Committee are: Margaret Jaster, humanities; Melvin Blumberg, business; Toni Dupont-Morales, public affairs; Robert Coleman, behavioral sciences and education; Andrew Lau, science, engineering and technology; and student Gloria Young.

The program is available to students with at least a 3.2 grade point average who are seeking an enriched educational experience.

Survey gives faculty, staff opportunity to make their workplaces even better

Full-time faculty and staff will have an opportunity to answer questions about how to make work a better place in a survey about Penn State's values and its reward and recognition programs. The University-wide survey will be conducted later this month. A confidential questionnaire, that can be completed in about 20 minutes, will be mailed on Jan. 24 and will explore: attitudes about Penn State; perceptions of various practices in the workplace; the importance of the University's values to different groups of employees; and the relationship between the University's values and its reward practices.

The purpose of the survey, to be completed and returned by Feb. 7, is to identify areas of the University that might be improved. The survey results will be used to improve the alignment between the University's stated values and its reward and recognition practices.

"All of us — faculty, staff and administrators — want to make Penn State an even better place to work and an even higher quality institution. This survey will help us identify what our employees think about Penn State as a place to work," President Graham B. Spanier, said. "We are especially interested in your views about whether the University

rewards appropriately those efforts it says it values. Your participation will be greatly valued."

Individual responses to the survey will remain anonymous, and a summary of the data will be available soon after the results are tabulated, some time in spring. The findings will be used to guide improvement efforts to reward and recognize more effectively faculty/staff contributions that support Penn State's mission and goals.

This study was commissioned by the Office of the President, guided by the University Council on Continuous Quality Improvement, coordinated by the Office of Human Resources, and prepared and administered by Diagnostics Plus Inc.—a private organization not affiliated with the University. In addition, the survey is supported by a broad spectrum of University organizations, including: the Commission for Women; the Commission for Lesbian, Gay and Bisexual Equity; the Commission on Racial and Ethnic Diversity; the staff Focus Group; Teamsters Local Union No. 8; and Penn State Educational Office Professionals.

For more information, call Billie S. Willits at (814) 865-7411.

Faculty/Staff Alerts

Jordan Center offering tours

The newly opened Bryce Jordan Center on the University Park Campus began offering public tours on Jan. 15. The tours, which take guests through all three levels of the building and provide interesting facts and trivia, are available Monday through Friday. Group tours for 20 or more people are also available. Groups interested in touring the 16,000-seat arena should contact Karen Pagani at (814) 863-5503 for more information.

Self-help courses available

■ Relax and Enjoy series

During this new four-week series, learn how to manage stress. Meets Fridays, Feb. 2-23, from noon-1 p.m. in 110 Henderson Building (The Living Center). Cost is \$10, and is reimbursable to members of the HMO.

■ Weight Watchers AT WORK and Weight Watchers AFTER WORK

The AT WORK session meets Wednesdays, through March 20, from noon-1 p.m. in the Paul Robeson Cultural Center Auditorium. The new AFTER WORK session meets Thursdays, Jan. 18-March 21 from 5-6 p.m. in 105 Physical Plant Building.

■ Fresh Start smoking cessation

Learn to break the cycle of habit and chemical addiction to cigarettes with this program from the American Cancer Society. Meets Tues/Thurs Jan 23, 25, 30 and Feb. 1, from 12:30-2 p.m. in 168C Office of Physical Plant Building. No cost.

To register for the above programs, contact Jan Hawbaker at (814) 865-3085 or JQH3@psu.edu.

Book donation program

The University Libraries has created a book donation program to help institutions of higher learning in developing countries obtain library materials.

Funded through undesignated gifts received from donors, the program tries to fill inquiries received from various offices around campus. Often the requests come from Penn State alumni who are now teaching in their own country of origin or a neighboring one. If you would like to make a donation, please contact Robert Seeds, head of the Mathematics Library and coordinator of the book donations, at (814) 865-3714.

Consultants ready to help

The Statistical Consulting Center on the University Park Campus is a team of faculty, staff and graduate students in the Department of Statistics with expertise in statistical methodology and applications who welcome the opportunity to work with other faculty, staff and graduate students.

For faculty and staff, the center can provide short-term advice through two free meetings for statistical needs on research projects originating at Penn State. Long-term arrangements can be made. For graduate students, the center offers two free meetings for research directly related to a master's or doctoral degree to be conferred by Penn State.

If you think you need the resources of the Statistical Consulting Center, call (814) 863-0281 to fill out a "Request for Statistical Consulting" form. Forms may also be obtained in Room 323 Classroom Building

or over psuvm. Exit the menus, then type STATIONS on the psuvm command line. Once your completed form is received, an appointment can be scheduled.

LIAS seminars

The University Libraries is offering several seminars during the spring semester to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM. LIAS searching techniques that enable users to maximize their searching power also will be presented. For a brief description of each seminar and the dates they will be offered, log in to the Intercom Web page through the University Relations home page at URL: <http://www.pubinfo.and.yasu.edu/>

In an effort to accommodate as many participants as possible, some sessions are offered more than once. To register or learn more about the seminars, send an E-mail to signups@pubinfo.psu.edu. If you have any additional questions, contact Doris Herr at (814) 863-0325. Seating is limited so register early! Information on the seminars can also be found by typing HELP WORKSHOP when using LIAS.

Upcoming HRDC Courses

The following courses are being offered by the Human Resources Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog.

Applying Mediation Skills To Conflicts At Work & Home (COM 028) Meets Thursday, Feb. 1, from 9 a.m.-4 p.m. in 319 Rider Building; Cost: \$55.

Introduction To American Sign Language (COM 023) Meets Friday, Feb. 2, from 1-4 p.m. in 319 Rider Building; Cost: \$35.

Designing & Delivering Oral Presentations, I (COM 013) Meets Monday, Feb. 5, from 1:30-4:30 p.m. in 319 Rider Building; Cost: \$35.

Conversational Spanish For Practical Situations, II (COM 029) Meets for eight sessions, Tuesday's, Feb. 6, 20, 27, March 5, 12, 19, 26 and April 9, from noon-1 p.m. in 319 Rider Building; Cost: \$55.

Quality Improvement In The Classroom: Case Studies (CQI 030) Meets Tuesday and Thursday, Feb. 6 and 8, from 1-4 p.m. in 319 Rider Building; Cost: none.

Developing Winning Research Proposals, I (PRO 014) Meets Wednesday, Feb. 7, from 9 a.m.-4 p.m. in 319 Rider Building; Cost: \$55.

Conversational Spanish For Practical Situations, I (COM 023) Meets for eight sessions beginning Feb. 8, 15, 22, 29, March 14, 21, 28 and April 4, from noon-1 p.m. in 319 Rider Building; Cost: \$55.

Designing and Delivering Oral Presentations, II (COM 014) Meets Monday, Feb. 12, from 1:30-4:30 p.m. in 319 Rider Building; Cost: \$40.

Building Strong Presentation Visuals: Using Diagrams and Graphs to Replace "Bullet Lists" (COM 032) Meets Thursday, Feb. 15, from 8:30-11:30 a.m. in 319 Rider Building; Cost: \$35.

Spring/Summer Computer Courses

Human Resource and Development Center

Wagner Computer Training Center

The following computer courses for faculty and staff are joint offerings of HRDC, the Center for Academic Computing and the Office of Administrative Systems. The courses are held in room 116 or 117 Wagner Building. To register, complete the form found in the HRDC Course Schedule brochure. For more information about the content of these courses, call 863-7491.

IBM Topics

Access I	Jan. 31 & Feb. 2	1-5:00 p.m.
Access I	April 10, 12	1-5:00 p.m.
Access I	July 1, 3	8 a.m.-noon
Access II	April 22, 24 & 26	8 a.m.-noon
Access II	July 29, 31 & Aug. 2	1-5 p.m.
Electronic Files Mgmt	April 12	10 a.m.-noon
Electronic Files Mgmt	June 24	10 a.m.-noon
Excel I	Feb. 12, 14	8 a.m.-noon
Excel I	June 17, 19	1-5:00 p.m.
Excel II	July 15, 17 & 19	8 a.m.-noon
IBIS Fin. forms	March 27	1-4:30 p.m.
IBIS Fin. forms	July 15	1-4:30 p.m.
Intro IBIS	Jan. 29	1-4:30 p.m.
Intro IBIS	Feb. 28	1-4:30 p.m.
Intro IBIS	March 22	1-4:30 p.m.
Intro IBIS	April 22	1-4:30 p.m.
Intro IBIS	May 28	1-4:30 p.m.
Intro IBIS	June 24	1-4:30 p.m.
Intro IBIS	July 25	1-4:30 p.m.
Intro IBIS	Aug. 16	1-4:30 p.m.
Intro IBIS	Sept. 11	1-4:30 p.m.
Intro IBIS	Oct. 7	1-4:30 p.m.
Intro Microcomp/DOS	Feb. 12, 14	1-5 p.m.
Intro Microcomp/DOS	July 8, 10	8 a.m.-noon
Intro Windows	Jan. 31 & Feb. 2	8 a.m.-noon
Intro Windows	March 18, 20	1-5 p.m.
Intro Windows	April 24, 26	1-5 p.m.
Intro Windows	June 12, 14	1-5 p.m.
Lotus for Win	Feb. 28 & March 1	8 a.m.-noon
Lotus for Win	July 1, 3	1-5 p.m.
PageMaker	March 25, 27, 29	8 a.m.-noon
PowerPoint	July 22, 24, 26	1-5 p.m.
PowerPoint	Feb. 19, 21	1-5 p.m.
PowerPoint	June 11, 13	1-5 p.m.
RMDS	March 6	1-4 p.m.
RMDS	July 17	1-4 p.m.
Word for Windows I	March 3, 6	8 a.m.-noon
Word for Windows I	April 29 & May 1	1-5 p.m.
Word for Windows I	June 26, 28	8 a.m.-noon
Word for Windows II	April 1, 3, 5	8 a.m.-noon
Word for Windows II	July 29, 31 & Aug. 2	8 a.m.-noon
WordPerfect DOS	March 13, 15	8 a.m.-noon
WordPerfect DOS	June 5, 7	8 a.m.-noon
WordPerfect Macros	May 20	8 a.m.-noon
WordPerfect I	Feb. 19, 21	9 a.m.-noon
WordPerfect I	June 12, 14	9 a.m.-noon
WordPerfect II	March 18, 20	9 a.m.-noon
WordPerfect II	July 22, 24	9 a.m.-noon
WordPerfect III	Aug. 7, 9	9 a.m.-noon

Mac Topics

Intro to Photoshop	April 10, 12	1-5 p.m.
Intro to Photoshop	July 30 & Aug. 1	1 p.m.-5 p.m.
Excel I	Feb. 14	9 a.m.-4 p.m.
Excel I	May 29	9 a.m.-4 p.m.
Excel II	June 17	9 a.m.-4 p.m.
Filemaker Pro I	Jan. 29	8 a.m.-noon
Filemaker Pro I	March 27	1-5 p.m.
Filemaker Pro II	Feb. 12	9 a.m.-4 p.m.
Intro to Mac	June 7	9 a.m.-4 p.m.
PageMaker I	Feb. 5, 7, 9	1-5 p.m.
PageMaker I	June 10, 12, 14	1-5 p.m.
PageMaker II	July 22, 24	1-4 p.m.
Using Image Scanners	March 29	10 a.m.-noon
Using Image Scanners	June 3, 5	10 a.m.-noon
Word for Mac	July 11, 13, 15	1-5 p.m.
Word for Mac	July 15, 17, 19	1-5 p.m.
WWW Screen Design	April 10	10 a.m.-noon
WWW Screen Design	June 5	10 a.m.-noon

Awards

Professor emeritus receives career award

William Toombs, professor emeritus of higher education, has received the Howard R. Bowen Distinguished Career Award from the Association for the Study of Higher Education. The award annually recognizes an individual "whose career has significantly advanced the field of higher education through extraordinary scholarship, leadership and service."

As former director of the Center for the Study of Higher Education at Penn State, assistant to the dean in the Rackham School of Graduate Studies at the University of Michigan, past dean at Drexel University and teacher of midshipmen at Northwestern University, Dr. Toombs was cited for his many contributions. Dr. Toombs served on the faculty of Penn State since 1971 and has published extensively in faculty development, curriculum design and continuing professional education.

Dining commons renovation team garners top honors

Jean B. Hill, interior design coordinator in the division of Housing and Food Services, along with the University and the project architect, has been honored for excellence in design by the Association of University Interior Designers. The award was given for the design of the renovation of Warnock Dining Commons on the University Park Campus.

The annual design competition is divided into several categories of projects, including renovation and new construction. Entries are judged by independent professional and academic designers and architects.

The Warnock commons renovation was designed by Arthur Ruprecht of RSH Architects using themes from trains and industry important to Pennsylvania. Ms. Hill was responsible for project coordination of window treatments, seating layouts, furnishings and artwork portraying regional rail lines.

Pavilion Theatre selected for preservation award

The College of Arts and Architecture Pavilion Theatre was selected to receive the 1995 Award for Excellence in Historical Preservation by the board of governors of the Centre County Historical Society. The society commended the University on this excellent example of how historic buildings can be preserved and reused.

The newly renovated Pavilion Theatre was built in 1914 and served as a livestock arena for many years. It was later used as a conditioning and practice area for baseball and track and field athletes. The Pavilion was finally refurbished into a theatre with classroom space in 1962 and a four-phase renovation was recently completed.

Staff assistant cited for work

Janel L. Gibson, staff assistant at the Penn State Fayette Campus, has received the 1995 Development and University Relations Staff Assistant Excellence Award, a University-wide award given for the first time this year to recognize outstanding work.

Ms. Gibson, who began working at the Fayette Campus part time in 1983, has worked in the Development and University Relations Office there since 1985.

Two share award for cancer research

Dr. **Keith C. Cheng**, assistant professor of pathology and biochemistry and molecular biology, and **Sebastian Joyce**, assistant professor of microbiology and immunology, both at The Hershey Medical Center, have been named recipients of the American Cancer Society Junior Faculty Research Award. The awards are meant to encourage new investigators in their early careers in cancer research.

Dr. Cheng, who works in the Jake Gittlen Cancer Research Institute, is pioneering new ways to study vertebrate mechanisms of mutation, using genetic studies of zebrafish, and is beginning to study familial cancer.

He holds a B.A. in biochemical sciences from Harvard University, an M.D. from New York University School of Medicine, and a Ph.D. in molecular genetics from the University of Washington in Seattle.

He also studied mechanisms of mutation as a senior fellow at the University of Washington.

The goal of Dr. Joyce's research is to overcome immunological rejection following bone marrow transplantation for various end-stage diseases of the blood, such as leukemias and lymphomas.

Dr. Joyce has a B.Sc., majoring in chemistry, zoology and botany, from St. Joseph's College, Bangalore University, India; a master's in experimental biology from Saurashtra University, Rajkot, Gujarat, India; and a doctorate in microbiology and immunology from the Medical College of Virginia, Virginia Commonwealth University, Richmond. He also was a postdoctoral fellow, supported by the Cancer Research Institute, in the Department of Cell Biology at Albert Einstein College of Medicine, N.Y..

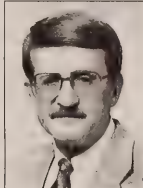
Programs director wins performance award

John Murphy, director of student programs and ser-

vices at the Penn State Wilkes-Barre Campus, was named outstanding chief student affairs officer of the Commonwealth Educational System.

In receiving the first-time award, Mr. Murphy was cited for his guidance to others and 30 years of experience at Penn State.

A native of Connecticut, Mr. Murphy



John Murphy

received his baccalaureate degree from Marietta College, Ohio, and his master's degree in counseling from the University of Bridgeport. He also completed Harvard University's Summer Management Development Institute.

Mr. Murphy came to Penn State in 1966 as assistant to the dean of student affairs at what was then the Ogontz Campus.

In 1967, he joined the Wilkes-Barre staff as director of student programs and services. From 1991-93, he served at the University Park Campus as special assistant to the vice president for student affairs and continuing education. He then returned to Wilkes-Barre to resume his former position.

His professional affiliations include the American Association of University Administrators and the Pennsylvania Association of Student Personnel Administrators.

Assistant director earns Benchoff excellence award

Andrea Christopher, assistant director of student affairs at the Penn State Mont Alto Campus, has been awarded the second annual John F. Benchoff Award for Excellence in Service.

Ms. Christopher, a Mont Alto Campus staff member since 1975, has served in her current position since 1991. She is responsible for the student financial aid program and for coordinating the counseling services available to students.

The Benchoff Award was created in memory of the late John F. Benchoff who served for 23 years as a staff member at the campus. When he retired in 1991, Mr. Benchoff was the assistant director of student programs and services.

Upon his death in 1993, this memorial award was created by an anonymous donor to be presented each year to an individual who exhibits outstanding performance in a non-faculty role.

All staff, advisory board members and students are eligible for this award.



Andrea Christopher

Distinguished professor honored with service award from society

Inyong Ham, Distinguished Professor of industrial engineering, was awarded the first Distinguished Service Award by the Korean Society of Mechanical Engineering (KSME) at the 50th-year anniversary celebration in Seoul, Korea.

Dr. Ham was cited as an individual who made distinguished lifelong contributions to KSME, for his dedicated efforts in enhancing KSME's international activities and also for the 1980 establishment

of the Baek-Am Award for the best technical paper by a young KSME member. This award is now recognized as the annual premiere award for excellence in research papers by young mechanical and manufacturing engineers in Korea.



Inyong Ham

The ARTS

AT PENN STATE

Saxophobia to perform

Saxophobia, a saxophone quartet from the College of Arts and Architecture School of Music, will perform for the Bach's Lunch series at 12:10 p.m. today in the Helen Eskin Eisenhower Chapel on the University Park Campus. The 20-minute concert is part of the Bach's Lunch series sponsored by the School of Music and University Lutheran Parish.

Members of the quartet include **Dan Yoder**, professor of music, who plays soprano saxophone; **Susan Kearney**, a junior in the music education program, who plays alto saxophone; **Rich Nasto**, a senior in the music education program, who plays tenor saxophone; and **Brian Watson**, a graduate teaching assistant, who plays baritone saxophone.

Prints in Ritenour Lobby

The Ritenour Lobby on the University Park Campus will display the prints of Erica Cho from Jan. 19 to Feb. 28. Ms. Cho is an undergraduate student majoring in printmaking. Her prints may be seen at the Ritenour Lobby on the first floor of the Ritenour building during normal business hours.

Medieval Art lecture

The College of Arts and Architecture Department of Art History continues its lecture series "The Fortune of Medieval Art in America" with a lecture by **Betsy Rosasco**, associate curator of the Princeton University Art Museum. Titled "The Study and Teaching of Medieval Art at Princeton: The Influence of the Scottish Enlightenment on the Dark Ages," the lecture will be held Sunday, Jan. 21, in the Palmer Lipson Auditorium of the Palmer Museum on the University Park Campus.

The lecture is planned in conjunction with the exhibition "Medieval Art in America: Patterns of Collecting 1800-1940," shown at the Palmer Museum through March 3. The lecture series is intended to expand upon selected topics explored in the exhibition and its accompanying catalog.

Dr. Rosasco, who has been at the Princeton Art Museum since 1981, is the author of *The Sculptures of the Chateau de Marly during the Reign of Louis XIV*, as well as numerous articles on art at the court of King Louis XIV of France.

All lectures are free to the public and will be presented at 2 p.m. The lectures are co-sponsored by the Institute for the Arts and Humanities Studies and the Center for Medieval Studies.

Recital rescheduled

Mark Lusk, associate professor of trombone, has rescheduled a recital in the School of Music Recital Hall for 8 p.m. Monday, Jan. 22.

His program will feature transcriptions and original works for tenor and bass trombone. Pianist **Kathy Cinali** will accompany Mr. Lusk on some numbers.

The recital is free to the public.

Artist featured in Kern

The Kern exhibit area cases on the University Park Campus will feature artist and wood burner **Sam Chaar** between Jan. 23 and Feb. 18.

Mr. Chaar creates portraits, still life and architectural scenes on each wooden canvas. He is pursuing his Ph.D. in hotel, restaurant and recreation management.

The Kern Cases are on the first floor of the Kern building and are open during all Kern building hours.

Special exhibit at HUB

The HUB's Art Alley Panels at University Park will feature the photographs of **Myka Lacey Craig** between Jan. 23 and Feb. 18. Ms. Craig is an undergraduate student majoring in integrated arts.

The HUB's Art Alley Panels are on the first floor of the Hetzel Union Building and are open during all open HUB hours.

Paintings at Berks Campus

From Brooklyn: Works by **Barry Steely** and **Elyse Taylor**, featuring the strong and bright imagery of two Brooklyn painters, opens at the Freyberger Gallery at the Penn State Berks Campus Jan. 28 and runs through Feb. 28.

A public reception for the artists will be held Sunday, Jan. 28, from 1 to 3 p.m.

The Freyberger Gallery is open to the public Monday through Thursday from 1 to 3 p.m.; Thursday evening from 6 to 8; Sunday from 1 to 3 p.m., or by appointment with gallery director **Beverly Levine**, (610) 320-4879.

Watercolors at Altoona

The Japanese-American International Watercolor Exhibition is on display through Feb. 3 at the Sheetz and McLanahan Galleries in the Community Arts Center at the Penn State Altoona Campus.

This exhibit showcases water media works by 34 Japanese artists

from the Rosokhai Group from Tokyo with watercolors by 36 invited artists, nine each from Blair, Bedford, Cambria and Somerset counties. The artwork will be displayed in pairs—one by an American artist and one by a Japanese artist.

Gallery hours are 10 a.m. to 5 p.m. on Monday and Wednesday; 11 a.m. to 6 p.m. on Tuesday and Thursday; and 11:30 a.m. to 5 p.m. Friday.

Painting exhibit

The HUB's Formal Gallery on the University Park Campus will feature the paintings of **Bill Hutson** through Feb. 25.

Mr. Hutson is an African American artist whose life and art have been heavily influenced by movement and travel. He was born in San Marcos, Texas, in 1936 and developed an early interest in architecture. By 1963, Mr. Hutson had become a respected professional artist with works in the collections of the San Francisco Museum of Modern Art, The Studio Museum in Harlem, The Columbus Museum of Art and the Newark Museum. His abstract style has been exhibited all over the world.

The HUB's Formal Gallery is on the first floor of the Hetzel Union Building and is open during all HUB hours.

Museum book exhibit

Books from some of America's most important collections, including several items from the Rare Books Room of Pattee Library, are on display in the Palmer Museum exhibition, "Medieval Art in America: Patterns of Collecting 1800-1940," shown through March 3.

In conjunction with the Palmer exhibition, the Rare Books Room has mounted an exhibition of books that reveal information about the taste for medievalism in Europe and America. The exhibition, titled "The Middle Ages in the Printed Book 1700-1940," includes volumes on medieval monuments, travel journals from America and abroad, and books that illustrate the influence of medievalism in architecture, literature and illustration.

The Rare Books Room is in Pattee Library on the University Park Campus. The exhibit is free to the public.

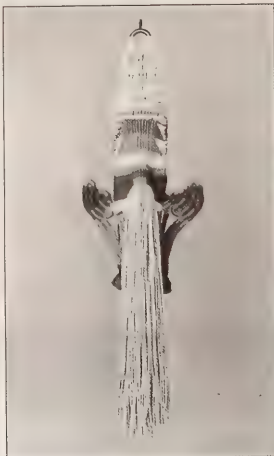
Fiber sculptures displayed

The fiber sculptures of **Evelina Francis** can be seen in the HUB's Browning Gallery on the University Park Campus through March 17.

Ms. Francis is an artist from Washington, D.C. Her principal mediums are fiber sculpture, beadwork and mosaics. She has been involved in the creative world for most of her life, and has instructed classes and workshops in the Washington, D.C. area for more than 22 years. Her works have been exhibited from Washington, D.C., to Salvador, Bahia, from Sengal to London.

Ms. Francis' work reflects her dual African- and Native American heritage and she is best known for her distinguished original fiber sculptures.

The HUB's Browning Gallery is on the first floor of the HUB and is open during all HUB hours.



Distinctive style

The fiber sculptures of Washington, D.C., artist **Evelina Francis** can be seen in the HUB's Browning Gallery on the University Park Campus through March 17.

Faculty recital

A faculty recital will be given by **Tim Hurtz**, assistant professor of oboe in the School of Music, at 8 p.m. Monday, Jan. 22, in Eisenhower Chapel on the University Park Campus.

He will share the recital with guest artist **Douglas Rubio**, professor of guitar from the Crane School of Music at the State University of New York at Potsdam.

The recital will include music originally written for oboe and guitar, some transcriptions, and solo works for each instrument.

Professor Hurtz, now in his third year at Penn State, is a member of the Pennsylvania Quintet and has performed with major U.S. orchestras as well as performed recitals in the United States, Europe and Japan. Dr. Rubio taught at Illinois State University for several years before joining the faculty at the Crane School of Music. He has performed recitals across the country.

The recital is free to the public.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, January 18
Bach's Lunch, noon, Eisenhower Chapel.
Saxophibia.

Sigma Xi, noon, 305 HUB. Harry R. Alcock on "The Design and Assembly of New Materials From Fundamental Principles."

Friday, January 19
Gallery Talk, 2:30 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "Baroque Art at the Palmer Museum." Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Dean R. Snow on "Tracking Down the Inquitos: The Uses of GIS in Paleodemography."

Center for the Performing Arts, 8 p.m., Eisenhower Aud. The St. Louis Symphony Orchestra. For tickets call (814) 863-0255.

Saturday, January 20
Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Beth Lombardi on "Collecting Medieval Art in America."

■ Film, 2 p.m., Palmer Lipcon Aud. "Europe in the Middle Ages: The City of God."

Sunday, January 21
Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Kathryn McCintock on "Collecting Medieval Art in America."

Art History, 2 p.m., Palmer Lipcon Aud. Betsy Rosasco on "The Study and Teaching of Medieval Art at Princeton: The Influence of the Scottish Enlightenment on the Dark Ages."

Center for the Performing Arts, 3 p.m., Eisenhower Aud. "Alyse Baako Drum Songs." For tickets call (814) 863-0255.

Monday, January 22
Human Development and Family Studies, 3:30 p.m., HUB Gallery. Edward Zigler on "Head Start: The Confluence of Social Science and Social Action." School of Music, 8 p.m., Eisenhower Chapel. Tim Hartz, oboe.

School of Music, 8 p.m., Recital Hall. Mark Lusk, trombone.

Tuesday, January 23
Center for Women Students, 7 p.m., HUB Fishbowl. Tineke Cunningham on "Career Issues for Women."

Wednesday, January 24
Center for Women Students, noon, 120 Boucke Bldg. Barbara Nilson on "Women and Spirituality." Brown Bag Lunch Series.

Thursday, January 25
Bach's Lunch, noon, 12:10 p.m., Eisenhower Chapel. Students from the School of Music Voice Studies.
Hillel, 6:30 p.m., Palmer Lipcon Auditorium. Film: "Noah at Seventeen."

■ Australia-Day Dinner, 6:30 p.m., Nittany Lion Inn. Reservations required, call (814) 863-1603.

Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Beth Lombardi on "Collecting Medieval Art in America."

Center for Women Students, 7 p.m., Palmer Museum Auditorium. Verta Taylor on "Identity Politics as High-Risk Activity: Career Consequences."

HUB "Distinctive Styles" Concert, 8 p.m., HUB Fishbowl. Mike Rayburn, music, comedy, and guitar.

Friday, January 26
Department of Psychology's Child Study Center Open House, 3-6 p.m., University Support Bldg. I.

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Melissa M. Lamont on "The Map Librarian's Dilemma: How to Integrate an Avalanche of GIS and Spatial Information

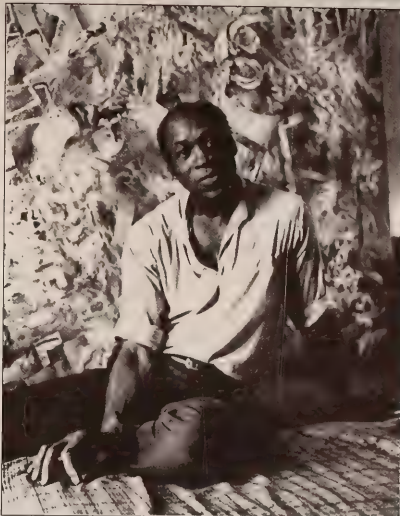


Image to Object

The abstract works of artist Bill Hutson (above) are on display through Feb. 25 in the Formal Gallery of the HUB on the University Park Campus.

into Library Systems."

Saturday, January 27
Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Marshall Price on "Collecting Medieval Art in America."

■ Film, 2 p.m., Palmer Lipcon Auditorium. "Europe in the Middle Ages: Charlemagne and the Holy Roman Empire."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Urban Bush Women "Bones and Ash: A Gilda Story." For tickets call (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Opera Gala. For tickets call (814) 863-0696.

Sunday, January 28
Art History, 2 p.m., Palmer Lipcon Auditorium. Mary B. Shepard on "Artists Love the Sanctuary of the Christian Church, and Tourists Love the Rest: Stained Glass from Chartres Cathedral at Princeton University."

SEMINARS

Thursday, January 18
Economics, 11 a.m., The Gallery, HUB. David E. M. Sappington on "Wealth, Ability and Entrepreneurial Opportunities."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. John Mason on "Intelligent Transportation Systems."

Friday, January 19
Science Seminars, 2:30 p.m., SS Osmond Lab. Gordon Baym on "Bose-Einstein Condensation from 10 (to the) 15 Kelvin

to 10 (to the) -5 Kelvin."

Saturday, January 20
Frontiers of Science, 11 a.m., 104 Classroom Bldg. Clifford Davidson on "Cosmochemistry and the Origins of Life."

Monday, January 22
■ Biology, 11 a.m., 101 ASI. Daniel Nepstad on "Deep Soil Biology of Amazonian Forests."

Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Bldg. Long Lyng on "High Performance Computing and Parallel Processing: Past and Present."

■ Archaeological Institute of America, 8 p.m., 101 Kern. Allan Cilingiroglu on "The Early Bronze Age Culture in the Lake Van Basin of Eastern Anatolia."

Tuesday, January 23
Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Michael E. Paulaitis on "The Molecular Origins of Hydrophobic Hydration."

Geosciences, 4 p.m., 112 Walker Bldg. Sam Bowring on "Early Crustal Growth and Evolution."

Wednesday, January 24
Gerontology Center, 12:15 p.m., 101 H&D East. Richard Sprott on "Frontiers in Gerontology."

Thursday, January 25
Gravity Center, 11:30 p.m., 339 Davey Lab. Sukanta Bose on "Hamiltonian Thermodynamics of Two-Dimensional Dilatonic

Black Holes."

Computer Science & Engineering, 4 p.m., 302 Pond Lab. Victor Y. Pan on "Optimal Algorithms for Approximating Polynomial Zeros."

Saturday, January 27
Frontiers of Science, 11 a.m., 104 Classroom Bldg. James Kasting on "Conditions Necessary for Life on Earth."

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m.
"Performance Today," Mon.-Fri., 9-11 a.m.
"All Things Considered," Mon.-Fri., 4-7 p.m.; Sat. & Sun., 5-6 p.m.
"Weekend Edition," Sat. & Sun., 8-10 a.m.
"Fresh Air with Terry Gross," Mon.-Fri., 7-9 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein," Wed., 8 p.m.
"Car Talk," Fri., 8 p.m. and Sun., 6 p.m.
"Living On Earth," Mon., 8 p.m.
"Inside Europe," Sat., 4:30 p.m.
"The Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

HUB

Formal Art Gallery: Bill Hutson's "Image To Object," through Feb. 25.

Browsing Gallery: Evelina Francis' fiber sculptures, through March 17.

Art Alley Panels: Myka Lacey Craig, commercial photography, through Feb. 18.

Art Alley Cases: Penn State art students' ceramics, through Feb. 18.

Kern Exhibition Area: Kern Panels: Teri Karpowich photography, through Feb. 21.

Kern Cases: Sam Chear woodburning, through Feb. 18. Palmer Museum

"Medieval Art in America: Patterns of Collecting 1800-1940," through March 3.

"Rapture at the Interface Between Love and Dislike," exhibition of African, African-American, and sound by David Tapica and Bryan Shuler. Through March 10.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10.

"Recent Gifts and Acquisitions," through June 2.

Paul Robeson Cultural Center

"Africa and the Diaspora: Personal Collections," exhibition of African, African-American, Italian and Brazilian art and artifacts. Through Feb. 25.

Ritner Louby: Erica Cho prints, printmaking. Through Feb. 28.

Zoller Gallery: "George Zoller: Painter of the Pennsylvania Landscape," through Feb. 9.

■ Reflects an international perspective

TIPS

Information Penn State

Call 863-1235 and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather - 234; Arts Line - 345; University Calendar - 456.

Committee to review achievement awards nominations

A general committee chaired by Billie S. Willis, assistant vice president for human resources, has been appointed to review nominations for the Faculty/Staff Achievement Awards: the McKay Donor Award, the Administrative Excellence Award, the Barash Award for Human Service, the Staff Excellence Award and the Penn State Equal Opportunity Award.

Five subcommittees will screen nominations and develop recommen-

dations for the respective awards. Members are:

■ **McKay Donor Award subcommittee:** James M. Elliott (chair), Corrine Caldwell, Donn Frazier, Sally Hattig, Craig Miller, Diane Ryan and Vernis Welton.

■ **Barash Award subcommittee:** Vicki Fong (chair), Blannie Bowen, Amy Andersky, Sydney Friedman, Brent Pasquinelli, Amie Peterson and James Purdum.

■ **Administrative Excellence Award subcommittee:** Lydia Abdullah (chair), Alicia Bunnell, Sabrina Chapman, Michael Gerber, Jack Kneel, Anne Smilowitz and William Swan.

■ **Staff Excellence Award subcommittee:** Harold Cheatham (chair), Christine Bundy, Carol Everett, Deborah Howard, David Stormer, Nicole Schmidt and Sharon Symanovich.

■ **Equal Opportunity Award sub-**

committee: Peter Weiler (chair), Steve Hayes, William Henson, Debra Putt, Sue Rankin, Amit Sahasrabudhe and Sandra Vactor.

Please refer to the Nov. 5, 1995 Intercom article for additional information related to the awards process.

The Faculty and Staff Achievement Award recipients will be announced at the Awards Convocation on Sunday, March 31.

News in Brief

Winter activities at Stone Valley

The Stone Valley Recreation Area is open for the following winter activities: cross country skiing (20 miles of trails), ice skating, and ice fishing.

Cross-country ski and ice skate equipment rentals are available. Cross-country ski lessons (group and private lessons) are offered.

Cabin and lodge rentals also are available for the winter season. The Recreation Area is located 14 miles south of University Park just off Route 26. For additional information please call (814) 863-0762.

Science writers to meet

Alan Walker, professor of anthropology and biology, will lead a luncheon roundtable discussion hosted by the Penn State Chapter of the National Association of Science Writers on noon Wednesday, Jan. 31, in room 101 Kern Building.

He will discuss the ways that science writers can avoid the pitfalls of covering discoveries of early humans. Dr. Walker also will explore when a new finding in anthropology constitutes a breakthrough discovery.

Last summer, in the journal *Nature*, Dr. Walker, Meave Leakey, of the National Museums of Kenya, and others described a fossilized leg bone that suggested human ancestors walked upright about a half-million years earlier than previous evidence indicated.

NASW luncheon programs are open to anyone interested in science communication. For more information, contact Scott Turner at 865-9481 (or by E-mail at stt11@psu.edu).

Blood drive continues

Snow emergencies this winter have forced the cancellation of blood drives and blood inventories of many types are seriously depleted. Several student and faculty/staff groups, in cooperation with the American Red Cross, will host blood drives this month and in February on the following dates:

Date	Place	Time
Jan. 25	Kern	10 a.m.-4 p.m.
Jan. 30	HUB Ballroom	10 a.m.-4 p.m.
Jan. 31	HUB Ballroom	10 a.m.-4 p.m.
Feb. 2	Scanticon	14 a.m.-5 p.m.
Feb. 6	ARL	10 a.m.-4 p.m.
Feb. 6	Simmons Lnge	1-7 p.m.
Feb. 7	Reber	9 a.m.-3 p.m.
Feb. 7	Waring	1-7 p.m.
Feb. 8	Fisher Hall	1-7 p.m.
Feb. 22	Housing & Food	10 a.m.-4 p.m.
Feb. 28	HUB Ballroom	10 a.m.-4 p.m.

Walk-in donors are welcome, with the exception of those sites followed by an asterisk. To schedule an appointment at ARL, call 865-3031; for Reber, call 865-1831. For more information on blood donation call the regional American Red Cross at (800) GIVE LIFE.

Nelson Memorial Service planned

A memorial service in honor of the late G. Kenneth Nelson, professor emeritus of accounting at Penn State, will be held in the Helen Eskin Eisenhower Chapel, Wednesday, Jan. 24 at 11 a.m. A reception in the chapel lounge will follow the memorial. The Smeal College of Business Administration is in charge of the arrangements.

Programs for adult learners

The Center for Adult Learner Services on the University Park Campus is sponsoring several programs to assist people in various areas, including financial aid and research. Upcoming programs follow.

■ **Student Aid: Making Money Stretch:** Program to be held from noon to 2 p.m. Tuesday, Jan. 23, in the HUB Gallery Lounge on the University Park Campus, and from 6-8 p.m. Wednesday, Jan. 24, in 305 HUB.

Presented by Jim Fay, financial planner, and Ron Nowanski from the Office of Student Aid, the program will focus on deadlines, the cost of attending college, developing a personal budget, reviewing assets and liabilities and cost-saving tips. An overview of financial aid sources also will be given.

■ **LIAS (Libraries Information Access Systems) Research Overview:** This program, set for noon-1:30 p.m. Friday, Feb. 2 or 6-7:30 p.m. Thursday, Feb. 8, in C402 Pattee Library, is geared to graduate students or undergraduate adult learners interested in research.

Presented by Diane Zabel and Debora Cheney of the University Libraries, the program features information on and hands-on experience with LIAS, an overview of library resources and workshops and information on library personnel who can assist in your search.

Anyone interested in these programs should contact the center at 863-3887 or stop by 323 Boucke Building on the University Park Campus.

Internet seminars

Would you like to know more about the Internet? Then attend the Internet seminars offered by the University Libraries and Computer and Information Systems this spring semester.

Introduction to the Internet

Designed for the novice. No registration required. Feb. 20, 9-11 a.m., 141 Computer Building

Eudora (E-mail) on the Macintosh

Prerequisites: An access account and experience with Macintosh System 7 or later. No registration required. Feb. 6, 6-8 p.m., 102 Classroom Building

Feb. 14, 3:15-5 p.m., 141 Computer Building

Feb. 21, 6-8 p.m., 104 Classroom Building

Feb. 27, 9-11 a.m., 141 Computer Building

Eudora (E-mail) for Windows

Prerequisites: An Access Account and experience with Windows. No registration required.

Feb. 6, 9-11 a.m., 141 Computer Building

Feb. 14, 6-8 p.m., 104 Classroom Building

Feb. 23, 3:15-5 p.m., 141 Computer Building

Feb. 27, 6-8 p.m., 102 Classroom Building

Introduction to Computer Conferencing

This seminar covers the LISTSERV and Usenet NEWS conferencing systems, focusing on Penn State usage. No registration required.

Feb. 28, 3:15-5 p.m., 141 Computer Building

Gopher

No experience is required. No registration required.

Jan. 30, 6-8 p.m., 102 Classroom Building

March 19, 9-11 a.m., 141 Computer Building

World Wide Web Hands-on: IBM

This seminar will introduce the Web and a popular web client, Netscape. Prerequisites: Basic IBM/Windows skills. Register electronically through the VM/CMS system or through the World Wide Web at the URL address:

<http://dtpserv.cac.psu.edu/web/training/schedule.html#internet>

Feb. 8, 6-8 p.m., 117 Wagner Building

March 14, 9-11 a.m., 116 Wagner Building

World Wide Web Hands-on: Macintosh

See description above.

Jan. 25, 6-8 p.m., 117 Wagner Building

World Wide Web Lecture

Meet the Web and web client, Netscape. No registration required.

Jan. 24, 6-8 p.m., 104 Classroom Building

Feb. 8, 1-3 p.m., 141 Computer Building

March 13, 1-3 p.m., 141 Computer Building

Telnet

Telnet is used to access mainframe services, LIAS and many other kinds of services at Penn State. No experience or registration required.

Feb. 22, 1-3 p.m., 141 Computer Building

File Transfer Protocol (FTP) for the Macintosh

FTP is the primary Internet protocol for file transfers. Prerequisites: Basic experience with the Macintosh. No registration required.

Jan. 23, 6-8 p.m., 104 Classroom Building

March 12, 9-11 a.m., 141 Computer Building

File Transfer Protocol (FTP) for IBM/Windows

See description above. Prerequisites: Basic experience in Windows. No registration required.

Jan. 18, 6-8 p.m., 201 Classroom Building

Feb. 29, 9-11 a.m., 141 Computer Building

For additional information, contact Katie Clark at (814) 865-5093 (ke@psulias.psu.edu).

Partings

Hershey administrator to retire Feb. 15

Allan Anderson, vice president and chief operating officer of The Hershey Medical Center and director of University Hospitals will retire Feb. 15 from the position he has held since 1990. (See related story on page 12.)

Mr. Anderson came to the Medical Center from Lenox Hill, a 650-bed community hospital in New York City. Before his position at Lenox Hill, he was executive director of Strong Memorial Hospital of the University of Rochester in Rochester, N.Y. for 11 years.

Mr. Anderson spent more than seven years at Highland Hospital in Rochester during his career. He launched his career in hospital administration there, first as an administrative resident in 1955 and then as an administrative assistant in 1956. He spent six more years at Highland, returning in 1959 as assistant administrator for three years, and again in

1965 as administrator.

In addition, he was assistant director at Presbyterian Hospital in Philadelphia from 1962 to 1965. He served as first lieutenant in the U.S. Air Force Medical Service Corps from 1957 to 1959.

He holds a B.S. degree in accounting from Syracuse University and a master's of hospital administration from the University of Minnesota.



Allan Anderson

Palynology professor retires after 30 years of service at University

Alfred Traverse, professor of palynology in the Department of Geosciences, has retired with emeritus rank after nearly 30 years service.

Dr. Traverse is an internationally recognized expert on the palynostratigraphy and paleoecology of the Devonian, Triassic/Jurassic, and Cenozoic rocks of North America, the origin of plants, and the sedimentation of pollen in modern environments and in rocks of all ages. His research has been published in monographs, book chapters and articles in such journals as *Science*, *Journal of Paleontology*, *Palynology*, *Review of Paleobotany and Palynology*, *Special Papers in Paleontology*, *Taxon*, *Geology*, and *Economic Geology*.

Dr. Traverse is author of *Palynology* (Winwin Hyman, 1988), the first comprehensive text on the subject and the standard reference and textbook in the field. He is editor of *Sedimentation of Organic Particles* (Cambridge, 1994), an overview of current research on palynosedimentation. Earlier, he served as editor for many volumes of the *Catalog of Fossil Spores and Pollen*, a series published by Penn State.

Dr. Traverse is an elected Fellow of both the American Association for the Advancement of Science and the Geological Society of America. Throughout his career, he has played an active role in the Botanical Society of America and the International Association for Plant Taxonomy (IAPT). He served as founding secretary-treasurer of the American Association of Stratigraphic Palynologists, and in 1970-71 as the association's president. From 1976 to 1980 he served as president of the International Commission for Palynology (now called the International Federation of Palynological Societies).

He was awarded the "International Medal" for 1991-92 by the Palaeobotanical Society of India in recognition of his "outstanding contributions to the field of paleobotany and palynology." In 1992, he

served as a Fulbright Professor at Senckenberg Natural History Museum in Frankfurt, Germany, and was subsequently elected as a corresponding member of its governing society, the Senckenbergische Naturforschende Gesellschaft, a highly exclusive group whose corresponding members once included Charles Darwin.

Dr. Traverse received his S.B. in biology, magna cum laude, from Harvard University in 1946 and was elected to Phi Beta Kappa. In 1946, he was awarded a Lady Julia Henry Fellowship to study at King's College at Cambridge University (UK), where he received a certificate in botany. Returning to Harvard as an Anna C. Ames Scholar, he went on to receive his master's degree in 1948, and doctoral degree in 1951, both in paleobotany.

In June 1966, Dr. Traverse joined the University faculty as an associate professor of geology, becoming professor of palynology in 1970.

He and his wife, Elizabeth, who holds an M.A. and Ph.D. in German literature from Penn State, live in a rural area near Huntingdon. They have four children and seven grandchildren. In his retirement, Dr. Traverse will continue to teach palynology and conduct research. He is hoping, however, to be able to spend more time working on his home arboretum, and at the family lakeside camp in the Adirondacks.



Alfred Traverse

Libraries, retired Oct. 17 after 19 years of service at the University.

Joseph B. Johnstonbaugh, engineering aide, Bio-mechanics, College of Health and Human Development, retired Dec. 21 after 21 years of service at the University.

Engineering leader earns emeritus status

Andrew Pytel, nationally recognized as a leader in engineering education, has retired as professor emeritus of engineering science and mechanics.

During his Penn State career, Dr. Pytel taught basic mechanics to generations of engineering students and led in the development of new teaching methods to enhance instruction. He is the author of several workbooks, sets of teaching notes and of three textbooks. His texts in *Statics*, *Dynamics*, and *Strength of Materials*, published by Harper Collins, are widely used nationally. In retirement, he continues to develop these texts.

Dr. Pytel employed a variety of teaching methods, including video and development of a coordinated faculty and teaching assistant approach, to teaching engineering courses offered to a broad base of students. He also developed internationally distributed correspondence courses for engineering courses in statics, dynamics and strength of materials. In 1990-91, he was invited to help set up a curriculum that would meet ABE approval in the newly established College of Engineering at the University of California-Riverside.

He provided leadership in committees and advisory boards at the department, college and University levels. He also was the Commonwealth Campus college coordinator for the Department of Engineering Science and Mechanics. He also was departmental coordinator for the study abroad program and instrumental in the development of the University Scholars Program.

Also active at the national level, Dr. Pytel chaired the Mechanics Division of the American Society for Engineering Education (ASEE) as well as provided leadership at both the regional and local levels. He is a past chair of the Student Chapters Committee of the American Association of Mechanics and is a member of the Society of Engineering Science, Eta Kappa Nu, Sigma Tau, and an honorary member of Phi Tau Sigma.

The recipient of numerous awards throughout his career, he was awarded the first Penn State Engineering Society Teaching Award in 1972 and went on to receive PSES Outstanding Advising and Outstanding Teaching awards.

He also received the first PSES Premier Teaching Award, the Western Electric Teaching Award and is an ASEE Distinguished Educator.

Dr. Pytel received three degrees from Penn State: a bachelor's in electrical engineering and a master's and doctorate in engineering mechanics. He served on the faculties of Rochester Institute and Northeastern University before joining Penn State in 1967 as an associate professor. He was promoted to full professor in 1984.



Andrew Pytel

Other partings

Wanita J. Askey, administrative assistant II in the College of the Liberal Arts, from Nov. 25, 1975, to Oct. 3.

Martha R. Bowman, staff assistant IX, Corporate Controller, from March 15, 1976, to Oct. 3.

Joyce S. Combs, staff assistant VII, University

Telementoring project links physicians with EMTs

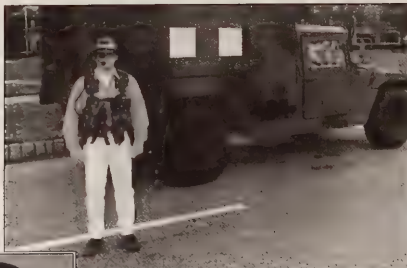
The Milton S. HERSHEY Medical Center

Through a mutual desire to use Internet technology to bring the expertise of emergency medicine physicians to disaster scenes without ever leaving their hospitals, a team of radiologists, computer experts and other researchers have collaborated on a telementoring project.

A key benefit to this high-speed networking is that wireless technology not only "enables a connection from a mobile communications post to a hospital, but it also provides immediate access to all available medical historical and resource information," said Fred Prior, chief of radiologic computing and imaging science at The Milton S. Hershey Medical Center.

"From the workstations, at the disaster scene and at the hospital, we can see the patient's lab results, their entire medical record, clinical history, radiology images, reports, charts and both historical information and real time vital signs. Plus, we can access through the Internet other resource materials available, at the push of a button," Dr. Prior said.

This translates into an even greater benefit for patients. The videoconferencing capability allows the remote clinician to be able to immediately assist the medical personnel at the site.



Robert S. Kenney, a graduate student in bioengineering at the Hershey Medical Center, wears a prototype vest and goggles developed by the U.S. Army. He is standing with the Army's mobile medical mentoring vehicle, recently on loan to the center as part of a joint research project with the Division of Radiologic Computing and Imaging Science.

Photos: Courtesy of The Hershey Medical Center



Fred Prior

"Even though the physician is not present, he can look through the med tech's eyes, whisper in his ear and tell him exactly what to do, providing a greater level of immediate assistance to the patient," he said. "The medical technologist in the field is not a physician, but he can be talked through a number of procedures. The physician is able to mentor the med tech because he can see exactly what the med tech is seeing."

A workstation developed at Her-

shey incorporates state-of-the-art video teleconferencing, remote patient evaluation and monitoring and full resolution medical images. The workstation integrates multiple clinical information systems using World Wide Web technology. The videoconferencing capability was built from scratch by researchers at Hershey.

Combine this ability with special prototype goggles equipped with audio and video equipment developed by the U.S. Army, and an Army vehicle known as the Mobile Medical Mentoring Vehicle (M3), and you've got a

mobile communications command post. The vehicle is also equipped with state-of-the-art videoconferencing equipment and the integrated workstation developed at Hershey.

Through the workstation, any image picked up by the medical technologist's goggles at the disaster or accident scene can be transmitted directly back to the remote clinician's workstation. A maximum of four sets of goggles may transmit simultaneous images. The truck is also equipped with an exterior video camera, which can be robotically controlled, allowing surveillance of the surrounding area as well. Although the vehicle itself does not have equipment to provide radiology images, the Army has a portable CT scanner that can accompany the vehicle so these images can be generated.

A variety of medical monitoring equipment is also available to collect blood pressure, heart rate, EKG, temperature and oxygen saturation.

The future benefits of this technology are tremendous, according to Dr. Prior. Aeromedical vehicles and ambulances could be equipped with the system to provide immediate, real-time data to trauma teams awaiting the arrival of injured patients. The equipment could be installed in the homes of elderly patients or those in assisted-living communities to provide ease of access of vital information to their physicians.

The collaborative effort on this project includes the U.S. Army's Medical Advanced Technology Management Office, Brooke Army Medical Center, and Loral Medical Imaging Systems, which developed the fully digital radiology system.

Hershey Medical Center undergoes administrative changes

Bruce H. Hamory has been named executive director of University Hospitals and will serve as chief operating officer of The Hershey Medical Center, replacing Allan C. Anderson, vice president and chief operating officer of the Medical Center and director of University Hospitals who will retire Feb. 15 (see story on page 11).

Dr. Hamory served as assistant dean for clinical affairs from 1993 before being named associate dean in 1994. He has been involved with the Medical Center's discussions with health maintenance organizations, with The Alliance 4 Health partners, with community physicians and with insurers.

Before coming to Hershey in 1987, Dr. Hamory served as assistant and associate professor at the University of Missouri at Columbia from 1978 until 1984. He served in the U.S. Navy from 1976 until 1978, where he was chief of clinical investigations at the U.S. NAMRU-5 in Addis Ababa, Ethiopia, and at the Malaria Vaccine Program in Bethesda, Md.

He is a 1971 graduate of Baylor College of Medicine. He served a residency in medicine at Vanderbilt University Hospital and a fellowship in virology and epidemiology at the University of Virginia Hospital.

In effecting a smooth transition, Dr. C. McCollister Everts, senior vice president for health affairs and



Bruce H. Hamory



John E. May III



Thomas J. Rohner Jr.

dean of the College of Medicine, announced other changes brought about by Dr. Anderson's retirement. **John E. May III**, senior associate director of University Hospitals, will become the director of University Hospitals. **Dr. Thomas J. Rohner Jr.** will become associate dean for clinical affairs.

"The Medical Center has experienced profound changes these past several years as we reinvent ourselves to meet the needs of the new health-care environment," Dr. Everts said. "One of our greatest challenges will be our ability to preserve our mission of research, education, patient care and community service while developing, and subsequently participating in a comprehensive, integrated health care delivery system."

Mr. May has been responsible for the day-to-day operations of the University Hospitals since 1990. He came to the Medical Center in 1976 as director of medical records. In 1979 he was promoted to assistant hospital director, responsible for central processing, laundry, medical records, risk management and utilization review. He was named director of outpatient services in 1984 and appointed associate hospital director in 1990; he was named to his current position as senior associate hospital director in 1992.

A native of Biloxi, Miss., Mr. May holds a B.S. degree in medical records administration from Florida Technological University.

Thomas Rohner was appointed assistant dean for clinical affairs in November 1995 and will assume his role as associate dean Feb. 16. He is a professor of surgery and chief of urology at the Medical Center, and has been on the medical faculty of University Hospitals since 1970. He was named professor in 1975. Before coming to Hershey, Dr. Rohner was on the urology staff at the Hospital of the University of Pennsylvania. He is a graduate of Yale University and the University of Pennsylvania School of Medicine, where he completed residencies in general surgery and urology.

Blizzard

continued from page 1

considered essential by the University—those people who are needed to carry out the basic operations of the University and who provide continuous service to students.

"Our people understand their job and they're dedicated," **Sandy Harpster**, assistant director of Housing Services, said. "They know that what they do is essential to these students and they feel a real obligation to be here."

For these employees, a sleeping bag and overnight gear have become part of standard operating procedures.

"We have people who stayed on campus three nights in a row," said **Connie Mitchell-Bates**, manager for Housing & Food Services at the Berks Campus. By all accounts, University sites in the eastern part of the state were nearly paralyzed by the storm.

"We got 36.7 inches," she said. "Not that I'm counting. But our people showed real dedication. They volunteered to stay, even though they were bartering for toothpaste and wash cloths, and trading hot chocolate mix for an unused toothbrush."

"They left here on the third day with red eyes, stiff necks and a smile on their faces," she said. "Their attitudes were incredible."

By the end of the ordeal, Berks' students were volunteering their towels, deodorant and other items for staff use.

Lloyd Rhoades, manager of central services at University Park, was also struck by the camaraderie and positive attitudes the storm spawned.

"It's really a great thing to see how everyone works together," he said. "So far this year, we've cleared nearly 80 inches of snow from the University Park Campus."

Snow removal personnel worked for 35 hours straight battling the mounting drifts.

"If someone told me there was a storm tomorrow, I'd tell them I have my bag in the corner and I'm ready to go," Mr. Rhoades said. "We'll have the University cleared as quickly as we can. No problem."

One employee who didn't need to get out of bed during the storm, did just that for the sole purpose of watching the white stuff accumulate.

"We love this stuff. We get really excited about it and I know it's not popular to say this, but we generally enjoy the bad weather," **Bill Syrett**, Penn State Weather Station coordinator, said.

And according to Mr. Syrett, this is going to be a good weather-watching year.



On the job

Employees like Leanne Driscoll (right), nursing supervisor in University Health Services, often face adverse weather to make their appointed rounds.

Photo: Greg Gnecco

A message from the president

Already besieged by five major snowstorms—one of which is being called the blizzard of the century—Penn State employees across the state continue to show their diligence and dedication by braving the elements to keep our residence halls and buildings open, our research projects on track and our classes close to original schedules.

I'd like to take this opportunity to thank everyone who is making extraordinary efforts to keep the University in operation. From our snow removal personnel to our animal caretakers: from the people who make sure our students are fed to the employees who operate the power plant, my hat is off to you.

In early November when the first snowstorm plowed through the Center region, I thought the enormous effort and cooperation shown by both employees and Penn State neighbors in removing more than 7 tons of snow from Beaver Stadium at University Park couldn't be topped. I've since changed by mind.

I commend the work of everyone in our University system during what has to be called the worst winter in years. Thank you for a job well done.

President Graham B. Spanier



Partnership Update

Four representatives from DuPont met with President **Graham B. Spanier**, Executive Vice President and Provost **John Brighton**, Susan Welch, dean of the College of the Liberal Arts and chair of the University Council on Continuous Quality Improvement, **Gregory Geofroy**, dean of the Eberly College of Science, and **Louise Sandmeyer**, executive director of the CQI Center on Nov. 28 to brainstorm new areas for future collaboration. The following were identified by Penn State and DuPont as possible areas of collaboration:

- Technology partnerships
- Enhancing the K-12 and associate degree systems as a feeder to DuPont and Penn State
- Continuing education through distance learning
- Connecting DuPont's Continuous Business Improvement (CBI) effort with The Small College of Business Administration and the College of the Liberal Arts
- Transformation change process.

Quality Expo April 11

Planning has begun for the annual Quality Expo to be held from 11 a.m. to 3 p.m. Thursday, April 11, in the Nittany Lion Inn Ballroom.

This year the Expo will include team exhibits and college tables, as well as informational booths, quality circle presentations, a reception for exhibitors, door prizes, software demonstrations, a keynote speaker and much more. The final details are being worked out by a planning team: **Wilma Angst**, **Gerry Browder**, **Larry Burton**, **Katie Esposito**, **Carol Everett**, **Judy Hewes**, **Linda Klimczyk**, **Kurt Muller**, **Ginny Newman**, **Sue Oram**, **Jim Purdum**, **Louise Sandmeyer**, **Donna Schroyer**, **Barbara Sherlock**, **Karen Wagner**, **Jack Winter**, and **Lynn Yecina**.

Letters have been sent to team sponsors, leaders and facilitators and deans of academic units inviting them to participate in the Expo.

If you would like more information about how you can be part of this event, please call **Louise Sandmeyer** at (814) 863-8721.

Harrisburg and local community college begin joint program

Harrisburg Area Community College and Penn State Harrisburg have taken their commitment to provide quality education to the students in the capital region to a "historic" level.

On Nov. 6, leaders of the two colleges signed a dual admission agreement that will allow students entering HACC to be admitted to Penn State Harrisburg at the same time, paving the way for them to obtain a Penn State baccalaureate degree, after completing their first two years of study at the community college.

"About 35 percent of HACC students who choose to continue their college education also choose to attend Penn State Harrisburg," **John Bruhn**, provost of Penn State Harrisburg, said.

"Outreach and partnerships with colleges and universities are a high priority at Penn State Harrisburg as we make greater efforts to meet the changing needs of students in southeastern Pennsylvania."

HACC also has articulation agreements with a number of institutions, including Millersville University, Wilson College, Lebanon Valley College and several historically black colleges and universities.

The agreement does not affect nor modify Penn State Harrisburg's existing academic and admission requirements.

Students can apply for the baccalaureate dual admission program as early as their senior year of high school and preferably before the completion of 30 credits at HACC.

A HACC student choosing the dual admission program with Penn State Harrisburg will be assigned academic advisers from both institutions to work with them throughout every semester of their undergraduate experience.

Penn State goes live with its story

It's raucous and unpredictable, but that's the way they like it on the sidelines of the Nittany Lions basketball games.

Anyone who's caught the courtside banter during half-time of the televised home games is probably doing a double take. While other institutions cut away to spots that play elevator music and flash pictures of sunny campus scenes—as you sit trapped in your house by 18 inches of snow—Penn State is going live outside.

In a move designed to keep armchair athletes in their seats during half-time instead of sprinting to the refrigerator, the University's Department of Public Information is producing a series of 10 live television segments to tell the Penn State story.

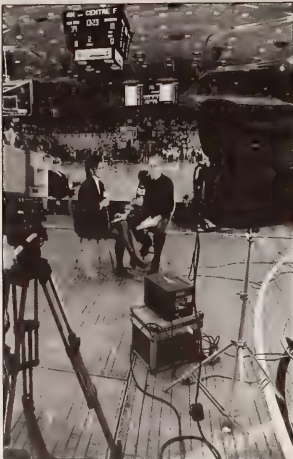
Each year, broadcasters provide the University with free air time during televised games to introduce viewers to the institution and talk about what Penn State has to offer. During these "institutional spots," colleges and universities normally run a pre-recorded message. In fact, during football season you may have seen some of Penn State's 30- or 60-second spots produced by the department and Film-space Inc. which feature dedicated undergraduate students. That series won an international Mobius Advertising Award for outstanding creativity from a field of 5,000 entries from 31 countries.

Aside from the prestige of winning prominent awards, depending on the game, the spots have the ability to reach tens of millions of viewers. Called "Time Out Penn State," the three- to eight-minute live interview segment does more than fill air time. So far, the eye-catching pieces have introduced viewers to the University president, given suggestions for career development, focused on recruiting women into engineering and science fields, recalled the golden days of Rec Hall and highlighted an invention by a Penn State professor that could save the lives of air travelers worldwide.

Each live piece opens with theme music and a graphic that segways into a live, courtside interview. While half-time activities drone in the background, host **Anne Moss** questions Penn State guests who provide information and expertise on various topics.

"The sports atmosphere is so energizing, we thought we could really capitalize on that momentum," **Melissande McCrae**, producer for "Time Out Penn State" and manager for electronic communication for Public Information, said.

The idea for the segments actually came from President **Graham B. Spanier**, who was the first guest to go live on the spots. He initially tossed out the idea of a live program as a money-saving possibility and because he



On the air

Anne Moss, host of "Time Out Penn State"—a new half-time feature, interviews Jack Rayman, director of Career Development and Placement Services

Photo: Greg Grieco

liked the interaction and immediacy that live programming provides. With the help of **Michael Bezilla**, director of the Department of Development Communications and Special Projects, several guests are lined up well in advance.

It's no ESPN with Dick Vitale spewing his own brand of sports witticisms ("Nothin' but net, baby!"), but it's got the look and feel of a professional interview program, despite the sometimes chaotic atmosphere of half-time activities at Rec Hall, and now the Bryce Jordan Center.

"It's a little difficult to stay focused with so much activity going on around you. When it's live you realize that if you lose your train of thought, you're done," **Jack Rayman**, a recent guest on the show, said.

Mr. Rayman, director of Career Development and Placement Services, said the segments are a good way to provide the general public with information quickly and spontaneously.

"I think people are burned out on slick Hollywood presentations and commercials...and I can tell you, slick I was not," he said. "Going live is a humbling experience, but people appreciate that. I think it really helps build credibility."

Sports viewers should look for six remaining "Time Out Penn State" segments this season. The next scheduled spot will be Jan. 24 at the Bryce Jordan Center when the Nittany Lions take on Purdue.

Director sought for Management Development

Applications and nominations are invited for the position of director, Management Development Programs and Services.

Management Development Programs and Services, founded in 1915, partners with client organizations, public and private, to enhance individual and organizational effectiveness through quality educational and developmental training programs. The director is responsible for leading and supporting a team of 14 full-time faculty at campuses and centers throughout Pennsylvania and for administering a budget in excess of \$1.5 million. The director reports to the vice president and dean for Continuing and Distance Education.

This position requires significant experience in a mid- to high-level organizational leadership/management position, with responsibilities for budgeting, contract or related negotiating, marketing, strategic planning and visioning. In addition, experience in training or consulting in an O.D./H.R.D./related area, including developing University-corporate partnerships and outsourcing opportunities, and experience in developing or expanding a business or service, or developing a new market for an established business, product or service, is required. A doctorate in a field related to O.D./H.R.D. is required. Salary is dependent on experience.

The search and screen committee will review applications and nominations beginning immediately, and will continue to receive them until a candidate is selected. Applications and nominations, accompanied by a resume and the names of three references, should be sent to: Chair, Search Committee, Human Resources/Continuing and Distance Education, Box 8, 120 S. Burrows Street, University Park, Pa. 16801.

Women and minorities are encouraged to apply.

University Park Libraries announce spring hours

University Libraries on the University Park Campus will maintain the following schedules during spring semester through May 4:

PATTEE LIBRARY:

The Arts Library, Documents/Maps, General Reference, Lending Services, and Life Sciences will be open Monday through Thursday from 7:45 a.m. to midnight; Friday, 7:45 a.m. to 9 p.m.; Saturday, 8 a.m. to 9 p.m., and Sunday, noon to midnight. The Reserve Reading Room/Microforms, First Floor West Pattee, and Periodicals will be open Monday through Thursday from 7:45 a.m. to 2 a.m.; Friday from 7:45 a.m. to 9 p.m.; Saturday from 8 a.m. to 9 p.m., and Sunday from noon to 2 a.m.

Interlibrary Loan, Photoduplication, Historical Collections/Labor Archives and the Rare Books Room will be open Monday through Friday from 8 a.m. to 5 p.m., and closed Saturday and Sunday. The Penn State Library/University Archives will be open Monday through Friday from 9:30 a.m. to 5 p.m.; Saturday from 9 a.m. to 1 p.m., and closed Sunday. The Music Library Listening Room will be open Monday through Thursday from 9 a.m. to 11 p.m.; Friday, 9 a.m. to 6 p.m.; Saturday, noon to 6 p.m., and Sunday, noon to 11 p.m.

BRANCH LIBRARIES

The Architecture Library, Earth and Mineral Sciences Library, Education Library, Engineering Library, Mathematics Library, and Physical Sciences Library will be open Monday through Thursday from 7:45 a.m. to 11 p.m.; Friday, 7:45 a.m. to 9 p.m.; Saturday, 8 a.m. to 9 p.m., and Sunday, noon to 11 p.m.

Pollock Library will be open 24 hours, seven days a week. For more information on hours of library service, call (814) 865-3063 or type HELP HOURS when using the Library Information Access System (LIAS).

Research

 Intercom
January 18, 1996 **15**

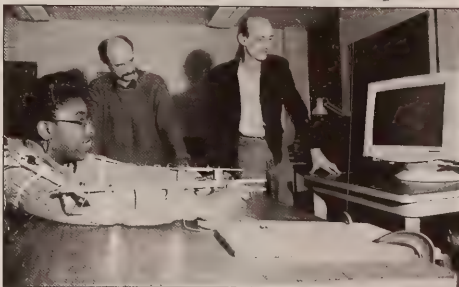
Decked-out students test theory of movement

When you reach for your morning cup of coffee, think about what you've accomplished.

Everyday movements that we take for granted are far more complicated than people realize," David Rosenbaum, professor of psychology, said. "It's still a mystery how to get a robot to do the physical things a 2-year-old child can do."

He and his students have developed a new theory of the planning and control of reaching movements that suggests those movements are based on learned postures stored in the brain. Their theory may be useful in robot design, physical rehabilitation and improved workplace safety.

According to the theory, when people select an object as a target to be reached, they unconsciously evaluate postures stored in their brains for the various contributions those postures can make. The brain "weights" the evaluated postures and then "pools" them, prompting a reaching movement that occurs only after the brain minimizes the distance between the starting angle of each body joint and the final angle of those joints when the object is grasped in an efficient manner.



Psychology professor David Rosenbaum and graduate student Arjan Lelivelt monitor a "real-time" computer graphic representing the reaching movements of DeAnn Richardson. Ms. Richardson volunteered to help the researchers test a theory of movement. She is reaching for objects while wearing a light "exoskeleton" fitted with infrared transmitters. Ms. Richardson is a senior from Painesville, Ohio, majoring in psychology.

Photo: Greg Grieco

Dr. Rosenbaum and his students are testing the theory by running experiments in which students reach for objects while wearing a light wooden outer skeleton fitted with infrared transmitters attached to the joints. The transmitters allow the positions of the joints to be recorded by computer.

"Wiring the students allows us to check the computer output against what the theory predicts," Dr. Rosenbaum said.

So far, the movements performed by the outfitted students come close to those predicted by the theory.

Dr. Rosenbaum and his students have also rendered their theory as a computerized stick figure that can move as people do.

The theory also explains how adaptations occur for arthritis or injury curtail joint mobility.

Recently, the theory

was elaborated to explain how people reach for targets while avoiding obstacles. Experiments in progress are designed to test whether people avoid obstacles as the theory predicts.

Ideas behind the theory were described in a recent article in the journal *Psychological Review*.

— Scott Turner

Research



Wider
pay gap
may be
OK

In most situations, a widening pay gap between men and women harms women more than it benefits men, a University study suggests.

According to the researchers involved, the overall best realistic earnings situation for both sexes may occur where the earnings gender gap widens in favor of men, rather than narrows in favor of women, as long as earnings for both sexes rise.

Kevin T. Leicht, associate professor of sociology, and Kristine M. Witkowski, a graduate student in sociology, examined the annual earnings of 4,567 employees in 52 Indianapolis, Ind., plants.

The researchers say that as men earn more in elite jobs that are extremely tough for women to attain, they may become indifferent to upward trends in the pay scale for non-elite jobs. They might not seek to stop women's earnings from rising, unlike the probable reaction if only women's pay rose.

Still, restrictions in competition for elite jobs pushes more people into competition for the non-elite jobs. This can ultimately depress the earnings of the lower ranks of the labor market.

Bosses must remember the past to give accurate performance reviews

Managerially speaking, the future is the trendy place to be. However, getting there might prove easier if more bosses could remember the past well enough to give their subordinates fair performance reviews, Penn State and Ohio State researchers said.

"A lot of go-getting bosses don't like to dwell on the past because their leadership style is so future-oriented," Peg Thoms, assistant professor of management with the School of Business at Penn State Erie, The Behrend College, said. "Such bosses may not do performance evaluations very well or, even worse, may not give evaluations at all."

"These bosses are also the sort who may fire a subordinate for a

recent error regardless of many years of good performance."

Dr. Thoms and David B. Greenberger, associate professor of management and labor relations in the Fisher School of Business at The Ohio State University, examined leadership and time orientation in the *Journal of Management Inquiry*.

"We believe that some of the skills necessary to good leadership should be labeled 'temporal skills,'" Dr. Greenberger said. "This class of skills includes the abilities to envision the future, predict outcomes of actions, chunk time into discrete segments and recapture the past."

The researchers said that recapturing the past is akin to using the

reverse button on a VCR to revisit what has happened previously; and it is the most important temporal skill as far as performance reviews are concerned. But like any of the skills, it may be automatic in some cases and, in other cases, may have to be learned.

Managers who have many subordinates for which performance appraisals must be done should stay mindful of past events and develop tools to help them remember the past, the researchers said. Failing that, it may help to engage in more frequent performance appraisals—for instance, on a quarterly rather than yearly basis—or to delegate the chore to others who have the neces-

sary temporal skills.

Recapturing the past is also vital to managers' problem-solving abilities in terms of recreating previous steps to locate where and when a "bug" cropped up.

Overall, however, effective leaders need a variety of temporal skills, Dr. Thoms and Dr. Greenberger said. Some of these skills require an orientation toward the future and others toward the past. Organizations may need to hire a mixture of managers with different strengths in their time orientations to keep an even balance.

— Gary W. Cramer

Courier improves system for CIC library sharing

Imagine having access to 57 million books and 550,000 journals from anywhere on your campus. The Committee on Institutional Cooperation, the academic consortium of the Big Ten universities and the University of Chicago, has moved a step closer to that goal by contracting with a courier service.

The CIC has contracted with Pony Express Courier Corp. for expedited delivery of library materials among its 13 major research libraries, including Penn State, and the Center for Research Libraries. The service will provide daily stops on all campuses and a 24- to 48-hour delivery time. Pony Express Courier operates the most extensive regional ground distribution network in the courier industry, transporting non-negotiable financial documents and small packages for customers in 32 states.

The agreement enhances the inter-library lending service and increases access to important research materials. The delivery service will provide direct, physical delivery of items requested by library users participating institutions and ensures the materials will be delivered quickly and efficiently. While the service is currently provided to the 13 "flagship" campuses of the CIC and the Center for Library Initiatives, the CIC libraries plan to expand the service to appropriate regional and campus libraries within their university systems.

The holdings of the CIC libraries include more than 57 million volumes and nearly 550,000 current serial subscriptions. CIC universities expend more than \$75 million annually on library acquisitions.

In other areas of shared access, the CIC has been working to develop a system for production and networked distribution of electronic texts for instruction and research in the humanities. For information on the CIC or to view its home page on the World Wide Web, type in the URL <http://www.cic.net/cic/cic.html>.

Intercom now on World Wide Web

Beginning with this issue, portions of the *Intercom* will be available in electronic form.

Each Thursday, you will be able to access stories appearing on that week's front page, as well as the current arts briefs, University Park calendar and special features.

To view the *Intercom* home page on the World Wide Web, first visit the University Relations home page at URL <http://www.pubinfo.oud.psu.edu/> and then follow the link to *Intercom*.



Commemorating a dream

Students from the Department of Theatre Arts rehearsed for their Jan. 15 performance at University Park of "We Are the Dream," a dramatic presentation written and directed by Charles Dumas, visiting professor of theatre arts. The presentation incorporated music, dance and theatre to trace the African American struggle for freedom. University Park, like many campuses, will have events throughout the month of January as a tribute to Dr. Martin Luther King Jr.

Photo: Greg Grieco

NASA Space Grant Fellowships available

Twenty NASA Space Grant Fellowships totaling \$100,000 are available to students pursuing graduate studies at Penn State in the fields that, broadly interpreted, promote the understanding, assessment and use of space. NASA uses experts and research from almost all academic disciplines.

The grant program, funded by the Pennsylvania Space Grant Consortium and supported by NASA, provides fellowships in the amount of \$5,000 each for the academic year

beginning fall semester 1996. The money will be awarded for one- and two-year terms: 10 awards will be given for one-year terms and 10 awards will be given for two-year terms. Sixteen of the 20 awards will be made among the colleges of Agricultural Sciences, Earth and Mineral Sciences, Engineering and Science. The remainder will be distributed among all University colleges.

Applicants must be admitted to the Graduate School, be nominated by

their department and be U.S. Citizens or permanent residents. Women and minority candidates are especially encouraged to apply. The deadline for application is March 1.

For more information or an application form, contact the Penn State Fellowship and Awards Office, 318 Kern Building, University Park, Pa. 16802, or call (814) 865-2514; or contact the Pennsylvania Space Grant Consortium at (814) 863-7688 or by E-mail at pspace@psvm.psu.edu.

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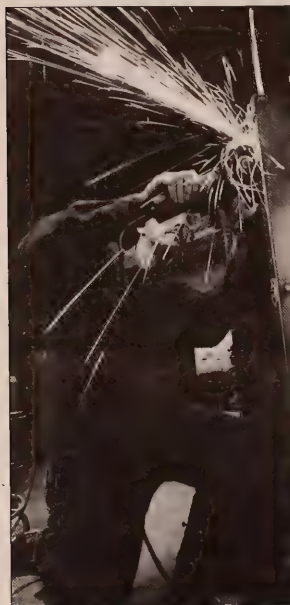


INTERCOM



January 25, 1996

Volume 25, Number 19



A spark of genius

Bryce Tugwell, a graduate student in sculpture, cuts through a metal cabinet while working on his latest creation in the College of Arts and Architecture.

Photo: Greg Gricco

Thirteen faculty members named Fulbright Scholars for 1995-96

Penn State remains among the top schools in the country in the number of faculty named Fulbright Scholars, according to the J. William Fulbright Scholarship Board.

With 13 faculty members who have won Fulbright Scholar awards for 1995-96, Penn State ties for first place with The Ohio State University. The University of Michigan, the California State University system, the State University of New York system and Washington University have 12 Fulbright Scholars each. In Pennsylvania, the University of Pennsylvania has five scholars, the University of Pittsburgh has four, Temple University has three, Duquesne and Villanova universities have two each, and eight other colleges and universities have one each.

"We are proud that at Penn State, not only do we have an impressive number of our faculty members winning grants to go abroad, but we also have an

equally impressive number of international faculty members applying to come to Penn State," LaMar Kopp, deputy vice president for international programs, said.

For the 1995-96 academic year, Penn State has been host to 13 Fulbright Scholars from other countries. "This fact speaks volumes regarding Penn State's world-wide reputation as a highly regarded educational institution," Dr. Kopp said.

The following 13 Penn State faculty members received awards to lecture, consult or conduct research abroad for the 1995-96 academic year. Two of the 13 have been appointed Fulbright Chairs, which are assignments for established scholars with a prominent record of accomplishment. Also listed is their host country.

— Philip H. Baldi, professor of linguistics and

See "Fulbright" on page 4

University moves ahead on child care

The University is continuing to move ahead to provide a wide range of child care options for students and employees at University Park and other campus locations and will have a full plan available for review later this semester.

"An important part of humanizing the University involves supporting our employees and promoting the well-being of their families. The availability of day care is critical, and I'm pleased that we are making progress in this area," said President Graham B. Spanier.

"Our objectives are to provide flexibility, service and assistance, where needed," Billie Willis, assistant vice president for human resources, said. "We are developing a multi-pronged approach. The University already has a flexible work schedule policy in place, which we hope will be more fully utilized."

"We also are exploring policies that will allow some employees to work from home and job share, when possible, and policies that will give students more distance education options, when appropriate," she said. "The other part of the approach is to facilitate more options for child care, such as resource

and referral and adding additional child care providers."

Recently, the University promoted a meeting between State College child care providers and State College Area School District officials. As a result, the school district will be alerting parents of kindergarten students much earlier as to whether the child will be in morning or afternoon school. Further, a child may attend kindergarten in a school other than the one that their residence would require if the child is cared for away from the residential area. This may become a model for other surrounding school districts.

In addition, the University is working with the State College Area School District on a pilot after-school program at the Lemont Elementary School.

Seminars on various parenting issues are scheduled throughout the year. This February, the Office of Human Resources in conjunction with the University's Employee Assistance Program provider will offer a seminar through departments on "Cornucopia Kids," which will focus on ways that parents

See "Child care" on page 10

Inside



Trustees Docket

The University Board of Trustees met Jan. 19 at University Park to conduct business—including the election of board President H. Jesse Arnette (left). Turn to pages 5, 6 and 7 for election results and more.



Deputy vice president announces pending retirement

W. LaMar Kopp will retire Aug. 31. For a look at how he helped change the face of the University, turn to page 12.

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DIVERSITY

"It could be the best move you ever make while at Penn State."

— Amber Reece, work-study student at Multicultural Resource Center

Center a comfort zone for minority students

By the time Amber Reece had completed several semesters at Penn State, she was close to becoming a statistic — a minority student who drops out.

For Amber it wasn't financial need or poor grades, "it wasn't even overt racism," she remembers, "it was just a feeling of not belonging, being one African American student in a class of several hundred white students, being uncomfortable on a social level — Hootie and the Blowfish are not my idea of party music."

As she struggled along, trying to find a place among the more than 30,000 students at University Park, Amber kept getting letters from the Multicultural Resource Center in Grange Building inviting her in for a visit.

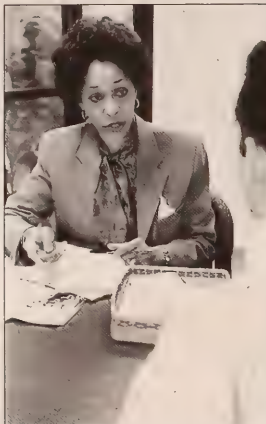
"I needed to be around people like me, other minority students, so finally I decided to make an appointment to visit the center — it has made a big difference."

Through the center Amber has new friends and feels connected to a campus community.

There Amber found not only other minority students, but counseling and educational services structured for her needs.

"The Multicultural Resource Center is dedicated to helping students of color succeed at Penn State," Michael Blanco, center director, said. "The counselors try to help students develop skills and strategies that will make them successful in the university setting."

The Multicultural Resource Center offers one-on-one counseling on a variety of issues including academic concerns, career development, interpersonal relationships with peers and family, conflict resolution and other personal matters. The center has very specialized groups like the biracial group where students can exchange opinions, offer support, socialize and learn from each other about their own specific perspectives on the multiracial experience.



On hand to help

Arlene Cheatham, an MRC counselor, gives academic advice to a student at the center, located in Grange Building on the University Park Campus.

Photo: Greg Grecio

"The center is a comfort zone," Arlene Cheatham, an MRC counselor for nine years, said. "A lot of students come to college with

exceptionally high academic expectations both from themselves and their parents." When they don't reach those goals immediately, conflicts can arise.

"Some students come here having been first in their class — top students — and for the first time they may be having trouble. We help them understand that college is different, you are going to have to go the extra mile to be successful and that we are here to help you. We are here to meet the needs of the students," she said.

The Multicultural Resource Center has about 3,000 students they serve primarily but all students are welcome at the center.

"We reach out in many ways. There is a fall freshmen orientation and orientation for transfer students, especially from the Commonwealth Campuses," Ms. Cheatham said.

"That is especially critical because transfer students must hit the ground running and they have to learn immediately some basic things like where buildings are."

Although all minority students — African American, Hispanic/Latino, Native American and Asian American — are contacted, specific sub-groups are considered more at risk and are targeted for immediate intervention, such as first-year students.

Now a work-study student at the center, Amber remembered her first visit with her counselor, Jesus Colon.

"He was great. He helped me a lot. I don't know how minority students make it through the University without going to the Multicultural Resource Center."

Amber offered a word of advice to students who get a letter or a call from the center: "Answer it, get involved. It could be the best move you ever make while at Penn State."

— Nancy Anita Williams

Speaker series promotes diversity

The McKeesport Campus Cultural Diversity Speaker Series, "Family of Man," continues Feb. 13 with Annita Scotland, who will discuss family life in Guyana, Suriname, St. Croix.

On March 14, Anna Maria Merrell will talk about family life in Spain, and on April 2, Michael Staresinic will present a program about family life in Swaziland and Mozambique based on his three-year experience with the Peace Corps in these countries.

The series is designed to promote greater understanding of cultural diversity. Each program will begin at 1:30 p.m. in the First Evangelical Free Church auditorium.

Commission for Women seeks volunteers

The Commission for Women, which promotes University women in their various roles and activities, encourages Penn State women to volunteer to serve on any of its seven standing committees. Much of the commission's ongoing work occurs within the seven committees listed below:

■ **Issues and Policies Committee** — Chaired by Nancy Herron, director of academic affairs at the Penn State McKeesport Campus, this committee is composed of three subcommittees that focus on faculty, staff and student affairs. Issues such as tenure and promotion, eldercare/child care and hiring procedures are tackled by these subcommittees.

■ **Professional Development Committee** — Chaired by Kathleen Matson, administrative assistant in the Department of Meteorology, this group has among its tasks developing

a mentoring program for faculty and staff. It is also working to simplify the Administrative Fellows program.

■ **The Nominating Committee** — Chaired by Ingrid Blood, associate professor in the Department of Speech Communication Disorders, this committee forwards names of qualified women to the president for appointment to the commission and solicits nominations for the Rosemary Schraer Mentor Award.

■ **Women's Athletic Committee** — Chaired by Patricia Book, associate vice president and associate dean for Continuing and Distance Education, this group focuses on the Title IX study and implementation of a salary equity study for male and female coaches.

■ **Liason Committee** — Chaired by Mary K. Howett, professor of microbiology and immunology at The

Hershey Medical Center, this committee is analyzing data on the effects of downsizing CES and is investigating the use of Picturatel technology to bring commission meetings to other Penn State locations.

■ **Outreach Committee** — Chaired by Debra Putt, staff assistant in the Department of Biology, this committee is planning campuswide events.

■ **Banquet Committee** — Chaired by Tineke Cunningham, counselor in Career Development and Placement Services.

For more information about the commission and these committees, log into the *Intercom* home page by typing in URL: <http://www.pubinfo.ott.psu.edu> and following the link to the *Intercom*, or call the commission office at (814) 863-7696.

DIVERSITY

Many events planned for Black History Month

February is Black History Month and many Penn State campuses will be holding special events. Listed below are some of the special events taking place across Penn State:

Abington-Ogontz

■ Tuesday, Feb. 6, 12:30 p.m.: "Latino and African American Relations" presented by Capt. Bill Jimenez, U.S. Marine Corps.
■ Wednesday, Feb. 7, 12:30 p.m.: panel discussion: "The Relationship Between Blacks and Jews."
■ Thursday, Feb. 8, 12:30 p.m.: "Careers in Law for Minorities" featuring Roberta West, Temple University School of Law, and Sidney Aveni, senior vice president and general counsel for Philadelphia Gas Works.
■ Monday, Feb. 12, 12:30 p.m.: Blues guitarist K.J. James in concert.
■ Thursday, Feb. 15, 12:30 p.m.: "Race and the Constitution" presented by Linda Collier, Lincoln University.
■ Monday, Feb. 19, 12:30 p.m.: "Race, Crime and the Criminal Justice System" with Morris Jenkins, assistant professor of administration of justice, Penn State Abington-Ogontz, and Judge Jacqueline Allen, Court of Common Pleas, Philadelphia County.
■ Tuesday, Feb. 20, 3:10 p.m.: "Get in the Swing of Latin Jazz" fea-

turing percussionist Marlon Simon, who explores the African elements in Latin music.

■ Wednesday, Feb. 28, 12:30 p.m.: United American Indians of the Delaware Valley, dances, songs and poetry celebrating American Indian heritage and links between Native Americans and African Americans.
■ Thursday, Feb. 29, 12:30 p.m.: "New Racism in America," speaker Richard Cooper, Temple University.

Berks

■ Wednesday, Feb. 7, 1 p.m.: "The Campus of Difference" presented by Christopher Taylor.
■ Wednesday, Feb. 28, 7:30 p.m.: Storyteller Shanta presents "Stories and Songs of African People."

Delaware County

■ Wednesday, Feb. 7, 12:30 p.m.: "African Americans in Higher Education" with Valeria Harvell.
■ Wednesday, Feb. 14, 12:30 p.m.: "Racism, Sexism and Classism," speaker Zadia Ife.
■ Monday, Feb. 19, 12:30 p.m.: A performance of the Philadelphia AME Youth Choir.
■ Wednesday, Feb. 28, 12:30 p.m.: Black History Student Talent Show.

DuBois

■ Monday, Feb. 12, noon: Tony Jarvis: Music for Everyone, acoustical soul, Hiller Building Student Union.
■ Wednesday, March 20, 7:30 p.m.: Shanta: African folk musician/storyteller, Hiller Building Student Union.

Penn State Erie, The Behrend College

■ Thursday, Feb. 15: All American Dixieland Band performs at Bruno's, the college's on-campus, non-alcoholic night club.
■ Thursday, Feb. 22, 7:30 p.m.: Debate on "Equal Opportunity in Post-Affirmative Action America" with panelists Joan Williams of The Washington Post and Linda Chavez, USA Today columnist.
■ Tuesday, Feb. 27, discussion of "White Bashing."
■ Thursday, Feb. 29, noon: The all-woman New Arts Six performs African American music, poetry and literature.

University Park

All events take place at The Paul Robeson Cultural Center.
■ Sunday, Feb. 4, 7 p.m.: Inner-

Visions Films presents "The Struggle for Freedom" and "Frederick Douglass."

■ Friday, Feb. 9, 7:30 p.m.: The play "Passages."
■ Sunday, Feb. 11, 7 p.m.: InnerVision Films presents "Gospel" and "The Songs Are Free."
■ Thursday, Feb. 15: Panel on affirmative action sponsored by the NAACP.
■ Saturday, Feb. 17: A Touch of Africa, dinner-dance and fashion show.
■ Sunday Feb. 18, 7 p.m.: InnerVision Films presents "Sankofa."
■ Thursday, Feb. 22, 7:30 p.m.: The Sixth Annual Malcolm X Lecture by Sonia Sanchez, Temple University.

Worthington-Scranton

■ Friday, Feb. 9, noon: Blues guitarist K.J. James performs.
■ Monday, Feb. 26, 7:30 p.m.: Storyteller Shanta presents traditional folk tales.
■ Throughout Black History Month, sketches and essays highlighting important African American men and women in history will be displayed campuswide.

News in Brief

Winter parking regulations

When snow accumulates, as it has many times during this winter season, or is predicted to accumulate in the evening or overnight, parking is prohibited in uncovered faculty/staff parking areas from midnight to 7 a.m. No parking signs of this nature are posted at the entrance to all faculty/staff surface parking areas.

In situations where faculty or staff, for personal or safety reasons, must leave their vehicles on campus overnight when snow is falling, the autos should be relocated to one of the parking decks (Eisenhower, Nittany or HUB). These vehicles must be back in their assigned lots by 8 a.m. the following business day in order to avoid ticketing or possible towing at the owner's expense.

Lone vehicles in lots, particularly smaller lots, make snow removal difficult and sometimes impossible. Office of Physical Plant snow removal crews must carefully navigate around abandoned vehicles and cannot properly clear lots or move snow in these types of situations.

Research subjects sought

The Center for Locomotion Studies is conducting research on human postural balance. Healthy females between 56 and 70 years of age and males between 56 and 70 years are needed. Exclusions include back problems, musculoskeletal problems affecting walking and balance, history of stroke and certain centrally acting medications.

The study requires either one visit of three hours duration or two visits of one-and-a-half hours each. Subjects will be compensated at \$5 per hour for a total of \$15. If interested, please call Diane or Ge at (814) 865-1972 for more information.

"Depressed" people needed

A study designed to help people with depression currently is being conducted. You may be experiencing major depression if you:

1. Feel depressed most of the day, nearly every day;
2. Experience a marked decrease of interest and pleasure in almost all activities;
3. Feel fatigued/loss of energy most of the day;
4. Feel worthless or excessive guilt; and
5. Feel a decreased ability to think or concentrate.

If you believe you are experiencing major depression and would like to be considered for a study being conducted by the Department of Psychology, please call Charles Hines at (814) 863-4833. Subjects (ages 18-35) included in the study will receive 12 to 20 free sessions of individual psychotherapy, either immediately after being assessed for depression or 12 to 20 weeks later. Subjects will also be asked to complete various questionnaires during and after treatment. A brief telephone interview will help this treatment for you. If you cannot be included in this treatment, alternate referral suggestions will be made. Strictest confidentiality is maintained.

Catholic fellowship meeting

On Monday, Feb. 5, Maria DiCola from the Forest Research Lab will speak on "Reflective Praying of the Scriptures." The Penn State Catholic Faculty and Staff Fellowship Group invites everyone to join this discussion beginning at noon in 212 Eisenhower Chapel. You may bring your lunch.

Professional Women meeting

Professional Women at Penn State presents an open public meeting, "Let's Talk About It," at 11:50 a.m. Friday, Jan. 26, in Room 212 Eisenhower Chapel on

the University Park Campus. Topics will include tuition remission, small group discussion issues and questions of interest to the University community.

Professional Women at Penn State is a grassroots group coordinated by University women in which participants can develop and maintain a communications network and serve as a resource for other Penn Staters.

The group welcomes attendance by both men and women in all job and student classifications at the University.

Married couples needed for study

The Department of Psychology is looking for legally married couples of all ages and backgrounds from Centre County to participate in a study on daily experiences and marital relationships. Couples who are willing to volunteer their time will be asked to complete daily diaries on their marital relationship and activities. Couples will receive \$30 cash and Penn State merchandise for their participation.

For more information, please call Lisa Feldman, Department of Psychology, at (814) 863-1720 and leave a message.

Hillel film series

A special monthly film series organized by Hillel, the Foundation of Jewish Campus Life, kicks off at 6:30 tonight with "Noah at Seventeen," a film set in 1951 and featuring a 17-year-old's struggle for personal autonomy as the debut of the secularism of kibbutz socialism tears her family apart. At 6:30 p.m. Thursday, Feb. 15, the program will feature "The Wooden Gun," a film that focuses on two rival groups of pre-teens in Tel Aviv.

The film series is co-sponsored by the Palmer Museum of Art, the Department of Comparative Literature and the Department of Jewish Studies.

Fulbright

continued from page 1

classics, has been appointed the J. William Fulbright Distinguished Lecture Chair in Linguistics at the University of Naples, Italy, February 1-May.

— **Bernard W. Bell**, professor of English, is lecturing at the University of Salamanca, Spain.

— **Edward J. Danis**, associate director in the Division of Undergraduate Studies, the U.S.-German International Education Administrators Program, Germany.

— **William M. Frank**, professor of meteorology, lectured at Monash University in Melbourne, Australia, August–November 1995.

— **Frederick E. Gildow**, associate professor of plant pathology, conducted research at the Scottish Crops Research Institute, Invergowrie, Dundee, Scotland, June–December 1995.

— **Lori D. Ginzberg**, associate professor of history, is lecturing at the Hebrew University in Jerusalem, Israel.

— **Gideon S. Golany**, distinguished professor of urban planning, is conducting research at the Middle East Technical University in Ankara, Turkey.

— **Dale Jacquette**, associate professor of philosophy, has been appointed the J. William Fulbright Distinguished Lecture Chair in the Contemporary Philosophy of Language at the University of Venice, Italy.

— **Thomas J. Jech**, professor of mathematics, is conducting research at the University of Caen in France, October–January.

— **Carol F. Kessler**, professor of English at the Penn State Delaware County Campus, is lecturing at Safarik University, Presov, Slovak Republic.

— **Edward Keynes**, professor of political science, is lecturing on American politics at Hiroshima University, Japan.

— **Patrick J. Moylan**, assistant professor of physics at the Penn State Abington-Ogontz Campus, is lecturing at the Czech Technical University, Prague, Czech Republic.

— **Paul D. Robillard**, associate professor of agri-

Fulbright Scholars from other countries

Visiting Fulbright at Penn State this spring:

■ **Glenn Barnich**, research assistant with the National Scientific Research Foundation, Faculty of Science, Free University of Brussels, Belgium, is working with **Abhay Ashtekar**, Department of Physics, Center for Gravitational Physics, on quantization methods of gauge field theories.

■ **Massimo Galletta**, adjunct professor, Department of Architecture, Rome Program at Penn State, is working with **Romolo Marienucci** in the Department of Architecture, Rome Program in Rome, until April on perception of urban and architectural space.

■ **Dwijendra Kumar Gupta**, associate professor, Department of Biochemistry, Molecular Biology Unit, Faculty of Science, Nehru Science Center, Allahabad University, India, is working with **V.P. Bharanandam**, The Milton S. Hershey Medical Center, Department of Biochemistry and Molecular Biology, on membrane molecular biology, GPI anchors and membrane traffic.

■ **Martin Ibarra**, university teacher, National Autonomous University of Nicaragua in Leon, is working with **J.M. Lambert**, Department of Computer Science & Engineering, until July on programming language.

■ **Kazimierz Krzysztofek**, head, Research Department for New Problems in Culture, Institute of Culture, Warsaw, Poland, is working with **Michael Bernhardt**, political science, on culture, market and democracy in East-Central Europe.

■ **Youn Sook Lee**, professor and head, Department

of Housing and Interior Design, Yansei University, Seoul, Korea. Dr. Lee is working with **Phyllis Adams**, in Agricultural and Extension Education, on the development of a housing model for the elderly and will be on campus until March.

■ **Emmanuel Mateloye**, assistant professor in the Department of French, University of Yaounde I, Yaounde, Cameroon. He is working with **Thomas A. Hale**, in comparative literature, on an analytical dictionary of Bamun proverbs until June.

■ **Galina Vasilyeva**, senior researcher, Laboratory of Biogeochemistry of Agrolandscapes, Institute of Soil Science and Photosynthesis, Pushchino, Russia. She is working with **John-Marc Bollag**, in the Laboratory of Soil Biochemistry, Center for Bioremediation and Detoxification, until March on microbial detoxification of soil-bound chloroanilines.

■ **Anatoliy Yerema**, lecturer in the Department of Slavic Philology, Kyiv Shevchenko University, Kyiv, Ukraine, is working with **Michael Naidan**, in Russian and East European literature, until May on a practical course of modern Ukrainian.

■ **Elena Zheltova**, scientific researcher, Department of History of Science and Technology, Institute for History of Natural Science and Technology, Russian Academy of Sciences, is working with **Michael Naidan** until May on the mystification of technology: technology, ideology and popular culture in Soviet Russia, 1917–1927.

Three other Fulbright Scholars were in residence at Penn State during the fall semester.

cultural and biological engineering, is conducting research in Ecuador.

The Fulbright Program is funded and administered by the U.S. Information Agency. Financial support also is provided by participating governments

and by host institutions. The list of Fulbright recipients was published in the Jan. 17 issue of *The Chronicle of Higher Education*.

University student earns Marshall Scholarship

Penn State senior **Bruce L. Booth Jr.** of West Chester is one of only 40 college students in the nation to win a 1996 Marshall Scholarship for two or three years of study at a British university. The winners were chosen from about 800 applicants.

The Marshall Scholarships, funded by the British government, were established by an Act of Parliament in 1953 in gratitude for United States aid through the European Recovery Program, known as the Marshall Plan, after World War II. The program introduces intellectually distinguished young Americans who will become national leaders to British social and academic values in order that they will continue to foster ties between the two nations.

"This is a significant accomplishment and outstanding recognition for Bruce's achievements, both academically and outside the classroom," said **Myra Gage**, coordinator of the University's Undergraduate Fellowships Office. "A University Scholar, he is an excellent student and has played a key leadership role in Penn State's Greek community. The Marshall Scholarship presents an excellent opportunity for Bruce to further develop his academic and leadership abilities."

Mr. Booth, who holds a 3.97 grade point average, will graduate in May with a B.S. degree in biochemistry and a minor in microbiology. After graduation, he will continue his studies, pursuing a D.Phil. in biochemistry and molecular biology with **Andrew McMichael's** Molecular Immunology Group at the University of Oxford's Institute of Molecular Medicine.

Dr. McMichael is on the cutting edge or research into finding a vaccine for HIV/AIDS and his work was featured recently in *Discover* magazine.

Mr. Booth, who hopes to blend research and service in the field of molecular medicine, has been performing independent molecular biology research on gene regulation and transcription factors since his freshman year, under the supervision of **B. Franklin Pugh**, assistant professor of biochemistry and molecular biology. His research has been presented at the National Conference for Undergraduate Research.

He has been active in Penn State's fraternity system, which is the largest in the country, serving as president of the Interfraternity Council, Beta Theta Pi fraternity and the Northeast Interfraternity Council. He has been a member of the Penn State Alumni Association Student Advisory Board, Men's Lacrosse Club and the University Encampment Steering Committee. He is a member of a number of honorary societies, including Skull and Bones, Mortar Board, Omicron Delta Kappa, Golden Key and Phi Kappa Phi.

Among his many awards and scholarships, he has received a Goldwater Scholarship, Evan Pugh Scholar Award and an Academic Excellence Scholarship.



Bruce L. Booth Jr.

Play to examine sexual issues is set for end of January

The Office of Health Promotion and Education, University Health Services, will present repeat performances of "Not Just Fooling Around!" a 40-minute play examining sexual health issues of the '90s, at 7 p.m. Tuesday and Wednesday, Jan. 30 and 31, in the HUB Assembly Room on the University Park Campus. Both performances are free and open to the public.

Performed by members of the Department of Theatre Arts' University Park Ensemble, "Not Just Fooling Around!" under the direction of **Barry Kur**, associate professor of theatre arts, is a realistic portrayal of college students in believable situations grappling with issues such as sexually transmitted diseases, sexuality and alcohol, communicating about "safer sex" and "coming out" to one's friends. A 20-minute discussion with the audience and cast members, led by staff and peer educators from the Office of Health Promotion and Education and HealthWorks, follows the performance.

For more information, contact University Health Services at (814) 863-0461.

From the Trustees Docket

Board of Trustees elects new officers for 1996

New officers were elected Jan. 19 by the Board of Trustees and San Francisco-based corporate lawyer H. Jesse Arnelle, who is senior partner at Arnelle, Hastie, McGee, Willis and Greene, was named president; **Edward P. Junker III**, vice chairman of PNC Bank Corp. and vice chairman of PNC Bank, N.A., will serve as vice president.

Mr. Arnelle and Mr. Junker will serve one-year terms that will expire in January 1997. Mr. Arnelle replaces **William A. Schreyer**, chairman emeritus of Merrill Lynch & Co., who served as president of the board for three years, and Mr. Junker replaces Mr. Arnelle who also served as vice president for three years.

Mr. Arnelle has served on the 32-member Board of Trustees at Penn State since he was first elected in 1969 by the alumni.

A 1955 graduate of Penn State, Mr. Arnelle was president of the undergraduate student body, a member of Lion's Paw and an All-American in basketball and a standout football player for the Nittany Lions. He is a graduate of the Dickinson School of Law and was recently conferred the degree of honorary doctorate of law by the law school.

Mr. Arnelle served on the Peace Corps staff in Turkey, India and Washington, D.C., and was later admitted to practice before the U.S. Supreme Court, the Pennsylvania Supreme Court and the California Supreme Court.

After service in the Peace Corps, Mr. Arnelle entered law practice in San Francisco as a sole practitioner in 1971. In 1985 he founded the firm of Arnelle and Hastie, with William Hastie, that merged with McGee, Willis and Greene in 1994. The 35-attorney firm of Arnelle, Hastie, McGee, Willis and Greene represents many of the major U.S. corporations.

Mr. Arnelle serves on the board of directors of Wells Fargo & Co. and Wells Fargo Bank, N.A.; WMX Technologies Inc.; Eastman Chemical Co. Inc.; FPL Group Inc.; Textron, Corp.; Armstrong World Industries; and Union Pacific Resources.

In San Francisco, Mr. Arnelle has served as a director of the San Francisco Opera Board; Foreign Affairs Council; Commonwealth Club; and president of the African-American Historical Society.

In 1994, Mr. Arnelle was elected to the board of directors of the National Football Foundation College Hall of Fame and received the Dr. Martin Luther King Jr. Medal for Outstanding Professional Service from George Washington University in 1995.

A San Francisco resident, he is a past president

and co-founder of the Penn State Renaissance Fund; a life member of the Penn State Alumni Association; and a member of the President's Club. He is also a member of Penn State's National Development Council. Mr. Arnelle is a native of New Rochelle, N.Y.

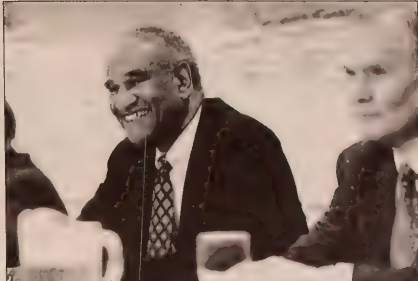
Edward P. Junker III has served on the board since 1986 when he was first elected by the delegates of the industrial societies and has been re-elected for succeeding terms. He is a 1960 graduate of Penn State and a 1969 graduate of the Stonier Graduate School of Banking at Rutgers University.

Mr. Junker joined Marine Bank — predecessor to PNC Bank, Northwest PA — as an assistant vice president in 1964 and was appointed a vice president in 1966. In 1980, he was elected senior vice president and in 1972, was named executive vice president. He was elected president in 1974 and chief executive officer in 1983.

In 1985, Mr. Junker was elected chairman of PNC Bank, Northwest PA, and vice chairman of PNC Bank Corp. He is a member of the board of directors of Autoclave Engineers Inc., and in 1988-89, he also served as president of the Pennsylvania Bankers Association.

In service to his community, Mr. Junker is a member and treasurer of the Erie-Western Pennsylvania Port Authority; president of the Erie Zoological Society; president and a member of the board of directors and executive committee of the Erie Foundation on Community Development; and a trustee of the Erie Community Foundation. He is a former chairman of the board of trustees and a member of the board of corporators, Harnot Health Foundation, and a member of the board of incorporators for Saint Vincent Health Center.

He received The Americans For Competitive



President of the board

H. Jesse Arnelle (left) was elected president of the University Board of Trustees on Jan. 19, while Edward P. Junker III (right) was named vice president. Both will serve until 1997.

Photo: Greg Grieb

Enterprise System Inc. Outstanding Citizen Award in 1992; the Alexis de Tocqueville Society Award-United Way of Erie County; and, in 1995, the Gannon University Distinguished Pennsylvanian Award.

Active in the development of Penn State, he was a member of the Executive Committee of The Campaign for Penn State and currently serves on the National Development Council. He is former chairman and member of the Council of Fellows at Penn State Erie, The Behrend College.

Mr. Junker received the Philip Philip Mitchell Alumni Service Award in 1984. In 1987, he was selected as an Alumni Fellow in the College of Health and Human Development and at Penn State Erie.

A native of Carnegie, Pa., Mr. Junker resides in Erie.

Other board officers include President **Graham B. Spanier**, who serves as ex officio secretary of the board. Officers elected to serve one-year terms on the board are:

- **Gary C. Schultz**, treasurer;
- **Raymond D. Nargi**, associate treasurer;
- **Janet L. Krone**, assistant treasurer;
- **Paula R. Ammerman**, associate secretary; and
- **Carolyn A. Dolbin**, **Joan L. Coble** and **Linda L. Cartright**, assistant secretaries.

Seven named to receive Distinguished Alumni Award

The Board of Trustees selected seven Penn State alumni to receive the Distinguished Alumni Award, the University's highest award for an individual.

Following are the 1996 Distinguished Alumni, year or years of graduation, and current title:

■ **Charles H. Bowman** of Novelty, Ohio, a 1957 bachelor's degree graduate in petroleum and natural gas engineering, College of Earth and Mineral Sciences. He is president, chief executive officer and chief financial officer of BP America Inc.

■ **James E. Carnes** of Pennington, N.J., a 1961 bachelor's degree graduate of engineering science from the College of Engineering. He is president

and chief executive officer of the David Sarnoff Research Center.

■ **Gordon G. Fee** of Oak Ridge, Tenn., a 1956 bachelor's degree graduate of physics from the Eberly College of Science. He is president of Martin Marietta Energy Systems Inc.

■ **Régina M. Lamberch** of Foy-Lez-Lyon, France, received her master's degree in 1975 and her doctorate in 1985 in French, in the College of the Liberal Arts. She is director of international relations of Ecole Centrale de Lyon.

■ **William R. McLucas** of Arlington, Va., a 1972 bachelor's degree graduate in political science, from

the College of the Liberal Arts. He is director of enforcement, Securities and Exchange Commission.

■ **Raymond E. Schultz** of Memphis, Tenn., a 1955 bachelor's degree graduate in labor management relations, from the College of the Liberal Arts. He is president and chief executive officer of the Promus Hotel Corp.

■ **Ray S. Walker** of Bigler, Pa., a 1935 bachelor's degree graduate in commerce and finance, from the College of the Liberal Arts. He is founder and retired president of the Bradford Coal Company Inc.

From the Trustees Docket

Weathering the federal budget storms

Penn State research positioned well to ride out national trends

"Among American universities, Penn State is particularly well configured for the current national budget climate," David A. Shirley, senior vice president for research and graduate education, told the University Board of Trustees on Jan. 19.

Over the next year, Penn State researchers will probably be minimally affected by cutbacks in fiscal 1996 federal agency research and development budgets. The University relies the least on agencies cut the most (See "Federal R&D" chart at right). For example, Penn State receives only .2 percent of its total federal grant and contract dollars from the Department of Commerce, which was cut 30 percent in fiscal 1996.

FY 1996 research expenditures are down by 2.5 percent to date. However, reserve funding from grants and contracts received up to five years earlier is giving researchers a grace period in which to adjust.

"We should, therefore, be able to ride out the current period of disarray in Washington with minimal damage to the academic enterprise," Dr. Shirley said. "In fact our reduced R&D expenditure level is at least partially attributable to cautious spending by our faculty."

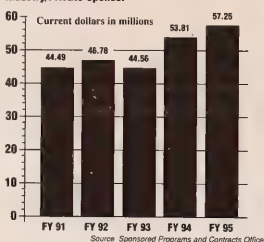
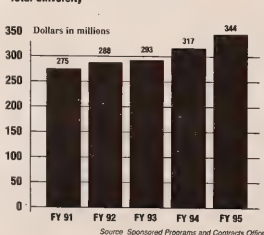
Based on Penn State researchers' activities over the past four years, Dr. Shirley predicted that total federal R&D support over the next seven years would fall somewhere between "constant dollars and growth with inflation, weighted more toward the former."

"I expect that our total grants and contracts income this year will fall somewhere in the range of the record last three years, which will keep our research enterprise very healthy," he said.

Penn State's research income from grants and contracts totaled \$285.8 million in 1995, up from \$202.8 million in 1991. Research expenditures, which take into account spending for research supported by federal and state appropriations and General University funds, reached \$344 million,

FEDERAL R&D — FY 1996

Agency	Percent change in funding	Percent of University federal grants & contracts
Department of Defense	+ 4.0	44
NIH	+ 6.2	24.7
National Science Foundation	- 1.6	11.7
NASA	- 5.0	6.7
Department of Energy	+ 0.9	5.0
Department of Agriculture	- 3.7	2.8
Environ. Protection Agency	- 12.2	0.7
Department of Commerce	- 30.0	0.2

ANNUALIZED AWARDS
Industry/Private SponsorRESEARCH EXPENDITURES
Total University

up from \$275 million in fiscal year 1991. (See "Research Expenditures" graph above).

Dr. Shirley pointed out that, although some research funding

comes from sources other than grants and contracts, more than 83 percent is generated as the result of proposals submitted by faculty members.

"Each year about 1,000 faculty members generate \$300 million in income from grants and contracts for an average of \$300,000 each," he said.

Research currently constitutes 20 percent of the University's total budget activity, Dr. Shirley said. If the 9 percent mean annual growth rate in research income experienced over the past four years were to continue, Penn State's income from the federal government would exceed that from the state within a few years, he said.

Industry support has also grown, by 6.5 percent annually, in the 1991-95 period (See "Annualized Awards" graph at left). With \$57.25 million in annualized awards in 1995 from industry and private sponsors, Penn State ranks second in the nation among all universities and first among public universities in industry-sponsored research expenditures.

Dr. Shirley said, "Prospects for increasing industrial funding for university R&D look unusually bright."

"Only 1.3 percent of industrial R&D is presently outsourced to universities and other institutions. Re-engineering of industrial practices will very likely increase this percentage," he said.

The University also is experiencing increasing returns on its investment in an extensive research enterprise in other ways. The University's Intellectual Property Office has reported growth in revenue from licensing and patent reimbursement activities from \$249,000 in 1994 to \$524,000 in 1995.

"This represents return on a long-term investment in aggressive marketing by Penn State of our own intellectual property. We expect that revenues in this area will continue to grow robustly in the coming years," Dr. Shirley said.

State releases funds for design of Penn State Harrisburg library

Penn State Harrisburg's state-of-the-art "Library of the Future" has taken a substantial step toward becoming a reality.

The Commonwealth's Department of General Services has released funding for the design phase and has named architects for the \$17.3 million construction project on the Middletown campus.

The Library of the Future will be designed in a joint venture between Hayes Large Architects of Altoona and Shepley Bullfinch Richardson and Abbott of Boston.

The projected 115,000-square-

The Library of the Future will be 115,000 square feet and will serve about 1.5 million people identified as potential users.

foot library will replace the current facilities of the Heindel Library located in the Olmsted Building on campus. In addition to the \$17.3 million provided by the state, a \$2 million Penn State Harrisburg campaign will provide funding to enhance the equipment and fixtures of the facility.

The Library of the Future will employ state-of-the-art technologies to provide global information access for both on-site and remote users. In addition, the new facility will provide adequate storage and use for the library's research collections in business, engineering, Pennsylvania folklore, women's history and other areas.

The geographical service area of the new library will encompass nearly 1.5 million potential users, including more than 7,000 graduates of Penn State Harrisburg who still reside in southcentral Pennsylvania, as well as area businesses and state government. Existing library space at PSH has not increased since 1978. Since that period, the upper division college and graduate center has grown nearly 60 percent to more than 3,500 students.

From the Trustees Docket

Trustees approve airport lease, plans for Fayette and Altoona

The Board of Trustees has approved the leasing of a parcel of University Park Airport property to a private corporation for the development of new hangar space. Also approved were final plans for the Biomedical Technology Center at the Penn State Fayette Campus in Uniontown and sketch/preliminary plans for a student residence hall at the Altoona Campus.

The University Park Airport has received requests for hangar space, especially for larger corporate-type aircraft, which exceed the capacity of present hangar facilities. To help alleviate the situation, the University will lease a roughly .95-acre parcel of land along Fox Hill Road to the Charlie Brown Air Corp. for the construction of a four-bay hangar facility and related aircraft parking ramp.

The Charlie Brown Air Corp. is headed by Lance Shaner, also chairman of the Shaner Hotel Group, based in State College. Mr. Shaner plans to occupy one hangar bay with his company's Citation jet and will rent the three remaining hangar bays to other tenants.

The acreage will be leased for a 20-year period at an annual rental rate of \$4,800 per year with periodic escalations, after which the structure and other improvements will revert to the University. The agreement includes



A preliminary sketch of a new student residence hall at the Penn State Altoona Campus.

requirements for approval of all building plans by the University before construction and appropriate restrictions on the use of the proposed facilities.

Areas for future construction of aircraft hangars were identified in the 1989 University Park Airport Master Plan and in the 1995 amended General Aviation Area Plan, both approved by the Board of Trustees.

The Biomedical Technology Center at Fayette will be a two-story, 27,400-square-foot facility with labs and faculty offices for the biology, chemistry, physics/earth sciences and nursing programs. The building will also house a 130-seat general science

lecture hall, a classroom and a greenhouse.

The Biomedical Technology Center is designed by Altman & Altman Architects of Uniontown. The total project budget of \$4.4 million will be funded through a state appropriation.

At Altoona, the proposed 320-bed residence hall will help meet a growing demand for student housing and will be among the largest new residence facilities built by the University since the 1970s. The sketch/preliminary plans are designed by Noelker and Hull Associates Inc. of Chambersburg and the total project budget is \$8 million.

At 79,000 square feet, the structure

will range from one- to four-stories, depending on the wing. Suites will consist of two double rooms sharing a common bathroom. Lounge and study space will be included in each wing.

In other business, the board was informed that the firm of John C. Haas Associates Inc., State College, has been appointed architect for a state-funded \$2 million renovation of the Animal Diagnostic Laboratory at University Park. This is the same firm that designed the University-funded two-story addition to the laboratory now under construction.

University makes all-around gains from inclusion in Big Ten

In athletics, universities improve through competition with strong opponents. In academics, they improve through collaboration with quality colleagues. With the Big Ten and the Committee on Institutional Cooperation (CIC), the Big Ten's academic arm, Penn State has the best of both worlds.

"The Big Ten and the CIC represent a group of educational institutions that have a strong desire to be the best and work together in athletics and academics," John Brighton, executive vice president and provost, told the Board of Trustees Jan. 19.

"Without reservation, I can say that our joining the CIC has been the best thing to happen to Penn State during my many years with this institution. And I'm confident that this alliance will continue to be a tremendous benefit to Penn State for many years to come."

The Big Ten is the only athletic conference with an academic counterpart, and collectively it has by far the highest academic reputation of all the major athletic conferences.

Dr. Brighton highlighted the educational benefits the CIC affiliation brings to Penn State and also took time to speak proudly of Penn State's outstanding athletic teams. The most important benefit of the affiliation is the "greater opportunities to

CIC EDUCATIONAL IMPACT

- 17 percent of all students attending research universities
- 8 percent of bachelor's degrees
- 15 percent of master's degrees
- 20 percent of doctoral degrees

Making their mark

The above statistics were outlined during Dr. Brighton's presentation Jan. 19 before the board of trustees to show the impact members of the Committee on Institutional Cooperation have on higher education. The CIC is the educational arm of the Big Ten and includes all 11 Big Ten schools, plus the University of Chicago.

improve the way we do our work — from teaching students to managing our finances. The University's energy and vigor has increased across the

board as a result of our interaction with the CIC."

Among the educational and academic benefits he cited are:

- Sharing the latest ideas in teaching, research and program curricula.
- Designing and implementing collaborative programs in areas such as library resource exchanges, technology in the classroom and study abroad.
- Keeping informed and working together to influence federal legislation affecting higher education.
- Participating in the Academic Leadership Program, which develops leadership and managerial skills in faculty and staff members who have demonstrated exceptional ability and administrative promise.

Dr. Brighton said he believes the completion of the Bryce Jordan Center would not have happened as quickly as it did without Penn State joining the Big Ten.

"It was a great experience to be 11 and 0 and playing the first basketball game in this arena last week," he said. "The Jordan Center joins a group of outstanding athletic facilities belonging to the institutions of the Big Ten. These universities also have well-run and highly competitive programs that stress the importance of academics."

The Arts

AT PENN STATE

Third annual Opera Gala

The Penn State Opera Theatre will present its third annual Opera Gala at 8 p.m. Saturday, Jan. 27, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

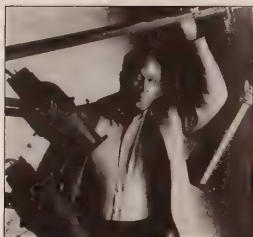
In this gala concert, produced by opera Director **Susan Boardman**, School of Music voice faculty members, alumni and students will perform arias, ensembles and choruses from the world's most beloved operas.

The Oriana Singers, directed by **Lynn Drafal**, will sing choruses from Giordano's "Andrea Chénier," Verdi's "Macbeth," Wagner's "Der fliegende Holländer," and Donizetti's "L'elisir d'amore." Mezzo soprano **Jan Wilson**, soprano **Theresa Smith**, tenor **Alex Hill** and baritone **Walter Wells**, all alumni of the School of Music, will be featured soloists with tenor **Richard Kennedy**, baritones **Norman Spivey** and **Marshall Urban**, and soprano **Sara Hopkins** of the voice faculty. Accompaniment will be provided by pianists **Robert Long**, **Matthew Dobbler**, **Kris Sanchak** and **Sarah Spratzer**.

Tickets for the Opera Gala are \$4, and may be purchased in advance from the School of Music Office or at the door the night of the performance.

Medieval art lecture

The College of Arts and Architecture Department of Art History continues its lecture series, "The Fortune of Medieval Art in America," with a lecture by **Mary B. Shepard** of The Metropolitan Museum of Art's Cloisters Museum. The talk, titled "Arts Love the Sanctuary of the Christian



One-man show

The Center for the Performing Arts presents "Halley's Comet," starring John Amos, at 8 p.m. Wednesday, Jan. 31, at Eisenhower Auditorium on the University Park Campus. For tickets, call (814) 863-0255.

Church, and Tourists Love the Rest: Stained Glass from Chartres Cathedral at Princeton University," will be held at 2 p.m. Sunday, Jan. 28, in the Palmer Lipcon Auditorium of the Palmer Museum on the University Park Campus.

The lecture is planned in conjunction with the exhibition "Medieval Art in America: Patterns of Collecting 1800-1940" shown at the Palmer through March 3. The lecture series is intended to expand upon selected topics explored in the exhibition and its accompanying catalogue.

Dr. Shepard has been at The Cloisters since 1985 and is in charge of the museum's extensive education department. The author of numerous studies on medieval stained glass,

which have appeared in museum catalogues and scholarly journals, she has made substantial contributions to publications of the "Corpus Vitrearum." She also was assistant editor and coordinator of *The Cloisters: Studies in Honor of the Fifth Anniversary*.

All lectures are free to the public and will be presented at 2 p.m. in the Palmer Lipcon Auditorium of the Palmer Museum on the University Park Campus. All lectures in the series are co-sponsored by the Institute for the Arts and Humanistic Studies and the Center for Medieval Studies.

Student art exhibit

Penn State student drawings, titled "Farewell Tribute to Calvin & Hobbes" by the Arshile Gorky," are on display in the window of Mr. Charles, 228 E. College Ave., in downtown State College through the end of January.

The exhibition features drawings by architecture students enrolled in the Arch 121 visual communications course taught by **Richard Alden**, assistant professor in the Department of Architecture.

Chorale symphony

The prize-winning chorale songs of **Bruce Trinkley**, associate professor in the College of Arts and Architecture School of Music, will be performed as part of a choral symphony Feb. 23-25 in Eisenhower Auditorium on the University Park Campus.

"Mother Nature," the winning series of chorale songs, will be performed as part of "Mountain Laurels," a chorale symphony which Mr. Trinkley has written to celebrate the State College centennial. "Mother Nature," which won first prize in this year's Chautauque Children's Choral competition, was written especially for the State College Elementary and Middle School choruses and was supported by grants from the College of Arts and Architecture, the Borough of State

College and the Pennsylvania Council on the Arts. The texts for "Mother Nature," as well as "Mountain Laurels," are drawn from the works of central Pennsylvania poets, including Theodore Roethke, John Haug, Jack McManis and E.H. Knapp.

Tickets to the Friday, Feb. 23, performance of "Mountain Laurels" are \$8 for adults; \$4 for students. Tickets for the Saturday, Feb. 24, and Sunday, Feb. 25, performances are \$12 for adults; \$5 for students. Friday and Saturday performances begin at 7:30 p.m.; a Sunday matinee will begin at 2 p.m.

For ticket information, contact the Arts Ticket Center, open 8:30 a.m. to 4:30 p.m., Monday through Saturday; phone (814) 863-0255. Outside the local calling area, phone (800) ARTS-TIX.

Writer's competition

The Department of English and the College of Arts and Architecture Palmer Museum of Art are sponsoring a competition for writers in conjunction with the exhibition "Medieval Art in America: Patterns of Collecting, 1800-1940" on display at the Palmer through March 3.

The competition is open to all Penn State students. There are two categories: prose and poetry. Each category is further separated into a graduate division and an undergraduate division. For each division within each category, there will be one first-place prize of \$100, one second-place prize of \$50 and one third-place prize of \$25.

The challenge of the competition is to produce a work inspired by the works in the exhibition, or by the issues that tie the exhibition together. Entries must be delivered to the Palmer Museum by 4:30 p.m. Friday, Feb. 9. Winning authors will read their entries at an awards ceremony at 7 p.m. Thursday, Feb. 29, in the Palmer Museum of Art on the University Park Campus.

For an entry form and more information, please contact the Department of English at (814) 863-0258, or the Palmer Museum of Art at (814) 865-7672.

Promotions

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Katryn L. Boynton, staff assistant VI in Office of the President.
Corinna R. Bressler, staff assistant VII in College of Communications.
Orlind R. Bundy, administrative director, Terrafin, in Division of Development and Alumni Relations.
L. Jay Burlingame, associate director, Student Affairs, at Penn State Altoona Campus.
Leather L. Chakiris, marketing communications account specialist in Continuing and Distance Education.
Karen L. Connelly, administrative assistant I in College of the Liberal Arts.

Galen R. Cori, advanced engineering aide in Applied Research Lab.
Anne S. Cornell, information planning specialist in College of Agricultural Sciences.
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David A. Dix, assistant engineering aide in Applied Research Lab.
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Lois E. Fake, staff assistant V at The Hershey Medical Center.
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Charlene A. Hockman, staff assistant VI in College of Engineering.

Harold R. Hockman, network support specialist in Office of Human Resources.
Michael C. Immel, manager, Manufacturing Systems Laboratory, in College of Engineering.
Elizabeth C. Izess, external relations assistant at Penn State Shenango Campus.
Alan F. Janesch, assistant manager, News Bureau, in Office of University Relations.
Keith L. Jansma, office information specialist in College of Agricultural Sciences.
Beverly J. Kaufman, staff assistant VI at The Hershey Medical Center.
Robin L. Kephart, staff assistant VII in College of the Liberal Arts.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, January 25

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Students from the School of Music Voice Studios.

Hillel, 6:30 p.m., Palmer Lipcon Auditorium. Film: "Noah at Seventeen."

■ Australia-Day Dinner, 6:30 p.m., Nittany Lion Inn. Reservations required, call (814) 863-1603.

Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Beth Lombard on "Collecting Medieval Art in America."

Center for Women Students, 7 p.m., Palmer Museum Auditorium. Vetta Taylor on "Identity Politics as High-Risk Activity: Career Consequences."

HUB "Distinctive Styles" Concert, 8 p.m., HUB Fishbowl. Mike Rayburn, music, comedy and guitar.

Friday, January 26

Professional Women at Penn State, 11:50 a.m., 212 Eisenhower Chapel. Brown bag lunch on "Let's Talk About It." Topics include tuition remission and University community interests.

Department of Psychology's Child Study Center Open House, 3-6 p.m., University Support Bldg. I.

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Melissa M. Lamont on "The Map Librarian's Dilemma: How to Integrate an Avalanche of GIS and Spatial Information into Library Systems."

Saturday, January 27

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Marshall Price on "Collecting Medieval Art in America."

■ Film, 2 p.m., Palmer Lipcon Auditorium. "Europe in the Middle Ages: Charlemagne and the Holy Roman Empire."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Urban Bush Women "Bones and Ash: A Gilda Story." For tickets call (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Opera Gala. For tickets call (814) 863-0696

Sunday, January 28

Art History, 2 p.m., Palmer Lipcon Auditorium. Mary B. Shepard on "Artists Love the Sanctuary of the Christian Church, and Tourists Love the Rest: Stained Glass from Chartres Cathedral at Princeton University."

Monday, January 29

University Scholars Program, 7:30 p.m., HUB Assembly Room. Harris Wolford on "Cracking the Atom of Civic Power."

Tuesday, January 30

University Health Services, 7 p.m., HUB Assembly Room. "Not Just Fooling Around:" 40-minute play examining sexual health issues of the '90s, performed by members of the Department of Theatre Arts. Also, Jan. 31.

Wednesday, January 31

Center for Women Students, noon, 120 Boucks Bldg. Film/Discussion, "Introduction to The Clothesline Project."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Halley's Comet," starring John Amos. For tickets, call (814) 863-0255.

Thursday, February 1

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Clarinet Choir.

Center for Academic Computing, 2-4 p.m., Studio C, Mitchell Bldg. PBS teleconference: "Funding Educational Technology."



On stage

Center for the Performing Arts presents Urban Bush Women in "Bones and Ash: A Gilda Story" at 8 p.m. Saturday, Jan. 27, in Eisenhower Auditorium. For tickets call (814) 863-0255.

Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "Collecting Medieval Art in America."

Friday, February 2

Center for the Performing Arts, 8 p.m., Schwab Auditorium. Turtle Island String Quartet. For tickets, call (814) 863-0255.

Saturday, February 3

■ Film, 2 p.m., Palmer Lipcon Auditorium. "Europe in the Middle Ages: The Feudal System."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Elaine Elias, pianist. For tickets, call (814) 863-0255.

Sunday, February 4

Lecture, 2 p.m., Palmer Lipcon Auditorium. Michael Cothren on "The Legacy of Ornament: Searching in the Glencarn Museum."

School of Music, 3 p.m., Recital Hall. Inter-Collegiate Orchestra.

Seminars

Thursday, January 25

Gravity Center, 11:30 p.m., 339 Davey Lab. Sukanta Bose on "Hamiltonian Thermodynamics of Two-Dimensional Dilatonic Black Holes."

Computer Science & Engineering, 4 p.m., 302 Pond Lab. Victor Y. Pan on "Optimal Algorithms for Approximating Polynomial Zeros."

Friday, January 26

Center for Gravitational Physics and Geometry, 2 p.m., 339 Davey Lab. James York on "Einstein and the Yang-Mills Equations in First Order Symmetric Hyperbolic Form Without Gauge-Fixing."

Saturday, January 27

Frontiers of Science, 11 a.m., 104 Classroom Bldg. James Kasting on "Conditions Necessary for Life on Earth."

Monday, January 29

Center for Gravitational Physics and Geometry, 3:30 p.m. Seth Major on "Quantum Deformation of Quantum Gravity." Call for location, (814) 863-9605.

Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Bldg. Philip Morris on "Numerical Issues in Computational Aerodynamics."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. David Nicol on "High Performance Tools for Simulating Complex Discrete Systems."

Tuesday, January 30

Geosciences, 3:30 p.m., 112 Walker Bldg. David Usher on "Chemical Evolution of Life."

Biology, 4 p.m., 8 Mueller Lab. Edgar Spalding on "Anion Channels and the Sensing of the Blue Light in Arabidopsis Seedlings."

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Jonathan Day on "Astrocyte Gene Expression in the Aging Brain."

Wednesday, January 31

Gerontology Center, 12:15 p.m., 101 H&H East. Richard Fingerman on "Never Ending Times: Parent/Child Relations in Adulthood."

Thursday, February 1

Physics, 3:30 p.m., 101 Osmond Lab. Stuart Kaufman on "Coevolution to the Edge of Chaos."

Friday, February 2

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Marc Abrams on "The Dynamics of Old-Growth Oak and Pine Forests in the Mid-Atlantic Region."

Saturday, February 3

Frontiers of Science, 11 a.m., 104 Classroom Building. J. Gregory Ferry on "Early Evolution of Life."

Sunday, February 4

Art History, 2 p.m., Palmer Lipcon Auditorium. Michael Cothren on "The Legacy of Ornament: Searching in the Glencarn Museum."

CONFERENCES

Thursday, February 3

"Affirmative Action in Higher Education: Implications of the California Decision," 9 a.m.-3:30 p.m., The Penn State Scenic Center. To register or for more information, call (800) PSU-TODAY.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m.
"Performance Today," Mon.-Fri., 9-11 a.m.
"All Things Considered," Mon.-Fri., 4-7 p.m.; Sat. & Sun., 5-6 p.m.
"Weekend Edition," Sat. & Sun., 8-10 a.m.
"Fresh Air with Terry Gross," Mon.-Fri., 7-8 p.m.
"Odyssey Through Literature with S. Leonard Rubenstein," Wed., 8 p.m.
"Car Talk," Fri., 8 p.m. and Sun., 6 p.m.
"Living On Earth," Mon., 8 p.m.
"Inside Europe," Sat., 10 p.m.
"The Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

Formal Art Gallery:

Bill Hutson's "Image To Object," through Feb. 25.

Browsing Gallery:

Evelina Francis' fiber sculptures, through March 17.

Art Alley Panels:

Myka Lacey Craig, commercial photography, through Feb. 18.

Art Alley Cases:

Penn State art students' ceramics, through Feb. 18.

Kern Exhibition Area

Kern Panels:

Teri Karpovich photography, through Feb. 21.

Kern Cases:

Seth Chasr woodburning, through Feb. 18.

Palmer Museum

"Medieval Art in America: Patterns of Collecting 1800-1940," through March 3.

"Rapture at the Interface Between Love and Disease," contemporary photography and sound by David Telephaga and Bryan Shuler, through March 10.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10.

"Recent Gifts and Acquisitions," through June 2.

Paul Robeson Cultural Center

■ "Africa and the Diaspora: Personal Collections," exhibition of African, African-American, Haitian and Brazilian art and artifacts, through Feb. 23.

Renour Lobby:

Erica Cho prints, printmaking, through Feb. 28.

Zoller Gallery:

"George Zortech: Painter of the Pennsylvania Landscape," through Feb. 9.

■ Reflects an international perspective

TIPS

Information Penn State

Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather - 234; Arts Line - 345; University Calendar - 456.



You can see this page in electronic form on the World Wide Web. Visit <http://www.pubinfo.psu.edu/Intercom/Intercom.html>

Child care

continued from page 1

might assist their children in understanding values—especially financial values—in this era.

Increasing child care programs and facilities at Penn State have been a concern for some time. In 1989, the University's Child Care Task Force reported on the societal changes that have advanced child care as an issue for employers throughout the country, noted the competitive advantages that quality child care programs could provide, and recommended a plan of action, including a needs assessment survey at all University locations, which is updated every few years.

Following the report, Penn State Erie, The Behrman College, Penn State Harrisburg and The Hershey Medical Center established new child care centers. The Hershey program is operated by Magic Years Child Care and Learning Center Inc. and has the capacity for 138 children. The program at Harrisburg is managed by Stepping Stone Inc. and has a capacity of 90. The program at Penn State Erie, which is operated by the University, has the capacity for 100 children.

At University Park, the University manages the Imagination Station child care center at the CATO Industrial Park in cooperation with the Association of Retarded Citizens for 15 full-time and 11 part-time children, and at St. Paul's Church on College Avenue for about 75 full- and part-time children.

"We are now in the final stages of preparing a request for proposals from private child care providers to build and operate a child care facility at the Penn State Research Park that we hope will be ground in 1996 and be up and running next year," Linda Pierce, coordinator of the Work/Life Programs in the Office of Human Resources and a member of the Child Care Advisory Committee, said.

Also under discussion are plans to renovate space on central campus for a facility that would provide flexible schedules for both employees and students as well as possible before- and after-school programs. Further down the road, are plans for a possible adult/child care center on the West Campus as it develops.

"The University child care center at St. Paul's, which is a pilot program, has more than 150 families on the waiting list, clearly demonstrating a need for more service," Ms. Pierce said. "By all measures, this pilot program has been a tremendous success. It regularly passes state licensing with flying colors, and the feedback we get from parents is overwhelmingly positive."

According to the 1994-95 Office of Human Resources Annual Report, 48 percent of the children at St. Paul's are children of employees and 9 percent are children of students and 9 percent are children of church parents, which

is part of the agreement to share space with St. Paul's.

"We began the program three years ago to assess several factors. We implemented flexible schedules for care, which is a big factor for students, to see what impact flexible child care schedules have on costs. We also wanted to explore offering financial assistance or subsidies to those who would qualify for state child care assistance, but cannot receive it because of their status as an undergraduate or international student. What we are learning from the program at St. Paul's has been very encouraging and we hope to be able to apply these features to other child care facilities," Ms. Pierce said.

Also on the University Park Campus and available to employees and students are day care centers at Cedar Building, with about 43 children, which is operated by the Child Development Council; and the College of Health and Human Child Development Laboratory in Henderson Building, which has about 54 children.

Penn State also cooperates with the State College Area School District to offer programs such as the Arts in August Camp and operates the DASH Camp for the critical last week in August when camp counselors are typically back in school. This program has been in temporary quarters and is now looking for a permanent home on campus.

Building more academic connections into child care facilities and increasing the number of cooperative programs with other community groups is a priority for the University's child care programs. Faculty and students are already well connected to existing University Park programs and the advisory committee hopes to increase those connections with new campus facilities. Its cooperative programs with local agencies and schools have been highly successful and the advisory committee hopes to increase these as well.

"The University will need to consider child care as it prioritizes its needs. As businesses, government agencies and other universities have found, the cost of not providing family support services can be even more costly in terms of valued employees who leave or who choose not to come," Dr. Willis said.

The Child Care Advisory Committee, chaired by Margaret Benson, assistant professor of psychology at the Penn State Altoona Campus, is made up of 20 faculty, staff and students, including five from locations other than University Park; two ex-officio members of the Child Care Executive Committee; and two staff to the committee. The action plan is expected to be completed later this spring and will be made available to faculty, staff and students through the World Wide Web and department offices.

Obituaries

Associate professor of art at Altoona dies

Kenneth M. Kuhn, an associate professor of art at the Penn State Altoona Campus for 27 years, died Nov. 19 at the Cleveland Clinic in Cleveland, Ohio. He was 59.

Mr. Kuhn was a 1954 graduate of Altoona High School, a 1960 graduate of Penn State with a bachelor of science degree in art education, and a 1966 graduate of Penn State with a master's degree in studio art. During his career, Mr. Kuhn won many awards, including The Andrew Mellon Educational and Charitable Trust Award from the Carnegie Museum; the Artist/Educator Award from the William Penn Museum in Harrisburg; the Hilda Carmel Award in Tenth Street U.S.A., New York City; The Westinghouse Electric Corp. Purchase Award from the Three Rivers Arts Festival in Pittsburgh; and the Juro's Award from the Central Pennsylvania Festival of the Arts.

He was a member of the Penn State Thespians, Phi Nu Alpha and Phi Delta Theta fraternities, the Penn State Altoona Symphony Orchestra, and the Associated Artists of Pittsburgh.

Retired senior scientist at MRL died Jan. 1

Pasquale H. Licastro, retired senior scientist in the Materials Research Laboratory, died Jan. 1. He was 70.

A graduate of Juniata College in 1947 with a bachelor of science degree in physics, he received his master's degree in geophysics from Penn State in 1951 and his doctorate in geophysics from Penn State in 1959. He was an officer with the U.S. Navy during World War II, serving as a communications specialist.

He was a senior scientist in the Materials Research Laboratory for more than 25 years. From 1974-1976 he was the senior research associate in the Department of Mineral Engineering. From 1970 until 1972 he was the program manager (SIREWS) at HRB Singer, where he was responsible for directing the development of field testing of a new weapons system.

He was a member of Sigma Xi, AIMME, API, the American Geophysical Union and Society of Exploration and Geophysics, American Men of Science, and Who's Who in Commerce and Industry. He was the co-founder of Tem Pres, Inc., and the owner of Penn Industrial Electronics.

Retired associate professor of forestry dies

Orvel A. Schmidt, retired associate professor of forestry, died Dec. 25. He was 85.

A graduate of the University of Wisconsin, he earned a master's degree in forestry from the University of Michigan. He worked as a state forest ranger and forest manager at the University of Michigan.

He joined the faculty in the Department of Forest Resources in 1946 and retired in 1974. He served with the U.S. State Department on assignments in Bolivia, Brazil, Panama and Chile. He taught at the Alfred Ludwig University in Freiburg, Germany, and was a consultant on forestry problems in Thailand.

He was a life member of the Society of American Foresters.

Other deaths

Luther H. Casper, machinist, Applied Research Laboratory, from March 4, 1946, until his retirement July 1, 1977; died Dec. 24 at the age of 80.

Richard A. Bailey, senior extension agent in Bucks County for the College of Agricultural Sciences, from June 16, 1955, until his retirement March 3, 1988. He died Dec. 7 at the age of 62.

Cynthia L. Campbell, group leader, milk testing machine operator in the College of Agricultural Sciences, died Dec. 12. Worked at the University from Aug. 1, 1957, until her retirement June 30, 1987. She was 59.

Jennie L. Lehman, janitorial worker, Maintenance & Utilities, in the Office of Physical Plant, from Dec. 1, 1952, until her retirement April 1, 1965; died Oct. 28, 1995 at the age of 88.

Velda A. Rice, janitorial worker in the Office of Physical Plant, from Sept. 1, 1959, until her retirement July 1, 1977; died Oct. 22, 1995 at the age of 83.

Harry F. Rilling, farm machinery operator in the College of Agricultural Sciences, from Aug. 1, 1954, until his retirement June 28, 1986. He died Nov. 30. He was 66.

Rosella A. Steiner, food service worker, Housing and Food Services, from Sept. 22, 1963, until her retirement July 31, 1982. She died Dec. 5 at the age of 73.

Grace K. Sunderland, clerk at the Penn State Altoona Campus, died Oct. 5, 1995. She worked at the University from Aug. 24, 1970, until her retirement Jan. 1, 1981. She was 77.

John Yasovsky, maintenance worker, Office of Physical Plant, from Aug. 6, 1973, until his retirement Sept. 1, 1989; died Sept. 30 at the age of 62.

Review process begins for CES proposals

The large stack of documents on Robert E. Dunham's desk is more than just another pile of work. Contained in this carefully assembled collection of printed material are the beginning plans of Penn State's future role across the Commonwealth.

As senior vice president and dean of the Commonwealth Educational System, Dr. Dunham is the first to

"We hope that each location has carefully scrutinized its mission and has provided us with a well-focused, prudent recommendation for a specific course of action that is supported by hard data."

Robert E. Dunham
senior vice president and dean
CES

review the tentative recommendations on the future missions of Penn State's campuses.

Due Jan. 18 from all of the 18 campuses within CES—plus Penn State Erie, The Behrend College and Penn State Harrisburg—the documents outline a specific option that each campus identified as viable during a three-month self-evaluation process. The evaluation process, which required each campus to re-examine its mission, was undertaken in October to determine how the University could better serve Pennsylvania. The process, eventually will result in the restructuring of CES to be more responsive to the needs of the communities it serves.

Dr. Dunham said he knows from his initial reading of the tentative recommendations that extensive research has gone into the project and many campuses conducted a well-organized effort to look impartially at their choices.

The proposed options will also be viewed and discussed by President Graham B. Spanier, senior administrators, deans and a special committee of the University Faculty Senate. Feedback from these consultations will be sent back to the campuses in February for further campus and community review and discussions.

What are they looking for?

"We're looking for a serious analysis by each campus to determine what is the unique need of the region that Penn State—through its local campus—should fulfill. We also asked each campus to recommend the option, among those they were given, that is not only in the best interest of Penn State, its community and its students, but is also viable," Dr. Dunham said.

"We hope that each location has carefully scrutinized its mission and has provided us with a well-focused, prudent recommendation for a specific course of action that is supported by hard data."

Dr. Spanier said the proposed missions should have been drawn up with the concept of "one University geographically distributed"—which was a guiding principle of the process.

The tentative missions should reflect a concern for the entire University system and should hint at a strategy for reallocating resources to best strengthen the role and mission chosen by a campus," Dr. Spanier said. "I'm sure we'll find an earnest examination of their ability to grow or

develop and a careful study of how they function and how they can function better."

After another round of community/campus discussions in February and March, final recommendations and supporting material are expected to be submitted to Dr. Dunham. According to the proposed time frame, a review of the final recommendations by the president, deans, administrators and outside consultants will take place in April and May. The president will then send a decision to the Board of Trustees in July.

"I know many of the campuses relied heavily on their local media for support during this process and they need to let their communities know that this process and these tentative recommendations are not the final product," Dr. Dunham said. "Most campuses led an outstanding self-evaluation process, allowing every segment of their community—both internally and externally—a voice in the process. Those discussions are in no way over. This is to be a broad-based process that is ongoing."

For more information on the process or to directly communicate with Dr. Dunham, log into the "CES Planning" site found on the home page of the Office of University Relations at URL: <http://www.pubinfo.ouid.psu.edu>.

—Lisa M. Rosellini

Statewide tour continues

President Graham B. Spanier's statewide tour rolls on with a visit today to the Allentown Campus and the Lehigh Valley area, where he will view an on-site computer workshop at Mack Trucks Inc.'s world headquarters. Later, he will address students at Louis E. Hieruff High School, attend a luncheon hosted by the Kiwanis Club of Allentown, meet with editors of *The Morning Call* newspaper, and meet with campus students, faculty, staff and alumni.

This statewide initiative was started last year as a vehicle for listening to constituents in the communities where Penn State is located.

The next stop is the Berks Campus on Feb. 1.

FAST FACTS ABOUT ALLENTOWN CAMPUS

Founded: 1912

Service area: Lehigh and Northampton counties

CEO: Eugene Slaski

Enrollment: 624

Employees: 24 full-time faculty; 50 part-time faculty

Key programs: Offer an associate degree in letters, arts and sciences, and also offer the first two years of most of the 180 baccalaureate degrees offered by Penn State. Offers a number of non-degree credit certificate programs in continuing education.

Penn Staters

Patricia Gordon Anderson, associate extension agent in Clarion County, and Jeffrey Fowler, extension director in Venango County, received "Search for Excellence" recognition from the National Association of County Agricultural Agents for the program Northwest Pennsylvania Livestock Programming—the Livestock Overnighter and Livestock Study Tour.

Abhay Ashtekar, holder of the Eberly Family Chair in physics and director of the Center for Gravitational Physics and Geometry, recently delivered a series of invited plenary lectures. In Italy, he lectured on "New Geometry from Quantum Gravity" at the Second Workshop on Physics at the Planck Scale in Erice, and on "Glimpses at Quantum Geometry" at the 14th Triennial International Conference on General Relativity and Gravitation in Florence.

In Portugal, Dr. Ashtekar presented

two lectures: "The Problem of Quantum Gravity" and "Quantum Connection Dynamics: A Status Report" at the Workshop on Modern Methods in Classical and Quantum Gravity. On the Madeira Islands, he lectured on "Quantum Fields, Connections, and Knots" at the Clifford Will Centennial Conference on New Trends in Geometrical and Topological Methods.

Alex Aswad, professor of engineering at Penn State Harrisburg, has been elected a Fellow of the Prestressed Concrete Institute.

Lori Bechtel, associate professor of biobehavioral health at the Penn State Altoona Campus, has received the "Health Educator of the Year" award for the state, given by the Pennsylvania State Association for Health, Physical Education, Recreation & Dance Inc.

John J. Cahir, vice provost and dean of undergraduate education and professor of meteorology, has been appointed to a two-year term as chair of the Advisory Panel of the Cooperative Program for Operational Meteorology Education and Training (COMET), sponsored by the University Corporation for Atmospheric Research.

J. Larry Duda, professor of chemical engineering and head of the Department of Chemical Engineering, has been elected a director of the American Institute of Chemical Engineers (AIChE). Dr. Duda was one of four directors elected to three-year terms in the institute's national election.

Duane Duncan, senior extension agent in Cumberland County, has been elected secretary of the National Association of County Agricultural Agents.

Dan Holt, assistant professor of education at Penn State Harrisburg, was a guest speaker at the 40th International Convocation of Kappa Delta Pi, an international honor society in education. He presented a program on "Helping Students Reduce Stress: Coping and the Positive Use of Humor."

James Purdum, general manager of the Nittany Lion Inn, has been awarded the Certified Hotel Administrator designation by the Educational Institute of the American Hotel and Motel Association (AH&MA).

The Certified Hotel Administrator is one of the highest designations offered by the Educational Institute. To qualify for this distinction, hotel/motel executives must demonstrate academic achievement and industry achievement.

Deputy vice president announces retirement

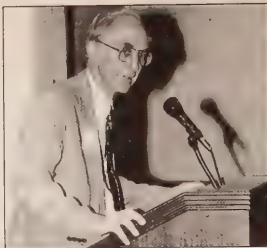
W. LaMarr Kopp, deputy vice president for international programs since 1985, will retire from the University effective Aug. 31.

Dr. Kopp has been with the University for more than 33 years, serving in a number of administrative positions for the last 25 years. A professor of German, he also has been an assistant and associate dean in the College of the Liberal Arts, director of the Foreign Studies Program and associate provost for international programs before accepting his current post.

In 1983, Dr. Kopp played a prominent role in establishing and organizing the University Office of International Programs with three divisions — the Office of International Students, the Office of Education Abroad Programs and the Office of International Cooperative Programs.

He was also heavily involved in developing the far-reaching plan for internationalizing the University that was put forth in 1994 by the International Council, which advises the president's office on international matters. One of its five goals is to provide international experience through education abroad for 20 percent of each undergraduate graduating class.

In his current position, Dr. Kopp is responsible for Penn State's 42 Education Abroad Programs, for 2,500 international students from more than 110 countries and for International Cooperative Programs, including agreements and cooperative projects with some 90 partner universities around the world. Since 1978, his office has made it possible for more than 10,000 students to take part in study abroad programs in 27 countries, and has helped hundreds of faculty and staff with travel arrangements to confer and work with colleagues at partner universities throughout the world. Also, his international affiliations include frequent consultations



Saying goodbye

W. LaMarr Kopp, who has been with the University for more than 33 years, will retire Aug. 31.

with heads of governments and universities around the globe.

Dr. Kopp has also served in a number of administrative positions in the College of the Liberal Arts, including assistant to the dean, assistant dean for resident instruction and associate dean for undergraduate studies.

In 1995, he received the Award for Administrative Excellence, presented annually to a staff member whose performance methods and achievement exemplify administrative excellence. He began his career at Penn State in 1962 as an instructor in German and was named assistant professor in 1965, an associate professor in 1970 and a full professor of German in 1973.

Dr. Kopp's international expertise and administrative skills have made him valuable as an officer for national organizations, such as national treasurer of the American Association of Teachers of German, secretary of the Council of Colleges of Arts and Sciences, vice chair of the Council on International Educational Exchange, and Penn State's representative on the board of directors of the Midwest Universities Consortium for International Activities (MUCIA). He also served for 16 years on the board of trustees of Eastern Mennonite College.

Before coming to Penn State, he served as executive director of the International Voluntary Service Organization in Switzerland and worked with the Deputy Prime Minister's Office on Technical Service Agreements in the Royal Government of Swaziland.

From 1954 to 1957, he was executive director of the Mennonite Voluntary Service, an international organization operated in cooperation with UNESCO. During those years, he traveled more than a quarter of a million miles throughout western Europe to establish and operate international projects involving students and other young people from many countries. During the 1977-78 academic year, Dr. Kopp was on leave from Penn State in Mbabane, Swaziland, working with the Royal Government on the issue of refugees from South Africa.

Before coming to Penn State, he taught at Augsburg College in Minneapolis; Goshen College in Goshen, Ind.; the University of Pennsylvania; and Temple University. A graduate of Goshen College, Dr. Kopp received his M.A. degree from the University of Minnesota and his Ph.D. from Penn State, both in German.

Dr. Kopp and his wife, Nel, a State College physician practicing with the Geisinger Medical Group, have three grown children.

Faculty/Staff Alerts

Emergency information is online

Disseminating up-to-date information about the status of the University Park Campus during adverse weather conditions, such as the recent snow storms, is a difficult task as media struggle to put accurate information on dozens of closings. In an attempt to better inform students and employees about delays or closings, an emergency announcement will be posted on the home page of the Office of University Relations at URL <http://pubinfo.oud.psu.edu> during any weather emergency.

People with access to the WWW and the University Relations home page from a remote location such as home — will see a flashing headline that says "Emergency Announcement." By clicking there, viewers can receive the latest information released by the University. In addition, there is also a button that allows people to link to the College of Earth and Mineral Sciences weather page for a complete updated forecast and selection of weather maps of the United States.

Closed for inventory

General Stores will be closed for inventory on Friday, March 22, reopening for business on Monday, March 25, from 7 a.m. to 4:30 p.m. Calls and questions regarding order status should be directed to General Stores, Physical Plant Building; (814) 863-7668.

Courses through Human Resources

Understanding Your EAP provides an overview of EAP services and a brief illustration of the counseling process. Meets Monday, Jan. 29, from 1:30 to 2:15 p.m. in 118 Ag Sciences Building.

EAP, The Supervisor's Role illustrates how a supervisor may interact with the employee relations division, human resource representatives and the EAP when an employee's personal problems affect

his/her work. Meets Monday, Jan. 29, from 1:30-3:30 p.m. in 118 Ag Sciences Building. Both programs are free. To register, contact **Jan Hawbaker** at (814) 865-3085 or JQH3@psuadmind.

Enlightening Lunch: Safe and Sound. Learn simple, practical strategies for preventing theft, personal assault, and property crimes at home, work and within the community. Meets Thursday, Feb. 1, from noon to 1 p.m. in 110 Henderson Building (The Living Center). Cost is free. To register, contact **Jan Hawbaker** at (814) 865-3085 or JQH3@psuadmind.

Conflict of interest

As a reminder of the conflict of interest disclosure policy, employees of the University should exercise the utmost good faith in all transactions touching upon their duties to the University and its property.

In their dealings with and on behalf of the University, they should be held to a strict rule of honest and fair dealings between themselves and the University. They should not use their positions, or knowledge gained in those positions, in such a way that a conflict of interest might arise between the interest of the University and that of the individual. Employees should disclose to the administrative head of the college or other unit in which they are employed, or other appropriate superior officer, any potential conflict of interest of which they are aware before a contract or transaction is consummated.

Fellowship applications due

Applications for the Institute for the Arts and Humanistic Studies Faculty Research Fellowships, for which research or creative work will be accomplished from July through December 1996, are due at Isheng Cottage by 5 p.m. Monday, Feb. 5. For more information or a copy of the research fellowship guideline, call the institute at (814) 865-0495.

Upcoming HRDC courses

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog.

Conversational German For Practical Situations (COM 020) Meets for eight sessions, Monday, Feb. 19, 26, March 11, 18, 25, April 1, 8 and 15, from noon to 1 p.m. in 319 Rider Building; Cost: \$55.

Designing Effective Computer-Based Presentations (COM 009) Meets Monday, Feb. 19, from 10 a.m. to noon in 141 Computer Building; Cost: \$35.

Powerpoint 4.0 (IBM 022) Meets Monday and Wednesday, Feb. 19 and 21, from 1 to 5 p.m. in 116 Wagner Building; Cost: \$110.

The A-B-Cs of Identifying, Preventing and Resolving Sexual Harassment (DIV 006) Meets Monday, Feb. 19, from 1:30 to 3:30 p.m. in 319 Rider Building; Cost: none.

Service on the Front-Line (CUS 001) Meets Tuesday, Feb. 20, from 8:30 a.m. to noon in 319 Rider Building; Cost: \$35.

Basic English Grammar and Mechanics (PRO 001) Meets for six sessions Thursday, Feb. 22, through March 8, from 9:30 a.m. to noon in 319 Rider Building; Cost: \$75.

Coaching For Exceptional Performance (LDR 022) Meets Wednesday, Feb. 28, from 8:15 a.m. to noon in 319 Rider Building; Cost: \$35.

Facilitator Training III (CQI 007) Meets Friday, March 1, from 8:30 to 11:30 a.m. in 319 Rider Building; Cost: none.

Partings

Hazleton Campus CEO to retire, ending 30-year career at University

James J. Staudenmeier, CEO of the Penn State Hazleton Campus since 1987, will retire Jan. 31 following a 30-year career with the University.

Dr. Staudenmeier, who also served as acting CEO in 1986 following the death of Harmon Pierce, has been instrumental in helping Penn State Hazleton increase its enrollment to an all-time high of 1,316 in 1995-96. He said he is retiring to explore the world beyond Penn State.

Before becoming CEO, Dr. Staudenmeier was director of academic affairs, a position he held at the campus since 1979. He served as director of Career Development and Placement Counseling, and was also responsible for the Office of the Registrar, academic course scheduling and undergraduate academic advising.

Dr. Staudenmeier began his career with Penn State in 1965 as a consulting psychologist for the Hazleton, Wilkes-Barre and Worthington Scranton campuses.

In the past, Dr. Staudenmeier has served on many University committees covering admissions, academic program development and strategic planning, and has been a member of several academic and administrative personnel search committees.

As a resident of Conyngham for many years, Dr. Staudenmeier has twice served as president of the Conyngham Borough Council; was director of the Hazleton Chapter of the American Cancer Society and the area Boy Scouts of America; he has been a member of the board of directors of Leadership Hazleton, Hazleton General Hospital, Hazleton Area Chamber of Commerce and MMI Preparatory School. He is currently a member of the board of directors of the CAN DO industrial development corporation.



James J. Staudenmeier

As a licensed psychologist in the Commonwealth, he is a former psychological consultant to the Pennsylvania Department of Labor and Industry, the Pennsylvania Bureau of Disability, the Hazleton Area Catholic Social Service Agency and the Hazleton Area Sheltered Workshop.

Dr. Staudenmeier received his bachelor of science degree in economics from Mount Saint Mary's College in Maryland, studied law at Dickinson School of Law, and received his master's degree in guidance and counseling from Bucknell University and his Ed.D. in counselor education from Penn State.

He and his wife, Dorothy, live in Conyngham and have four children—all of whom began their Penn State educations at the Hazleton Campus.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Faculty/staff survey

Don't forget to complete and return the Penn State Faculty/Staff Survey that is being distributed next week. This confidential questionnaire, which can be completed in about 20 minutes, was developed by the University Council on Continuous Quality Improvement and the Office of the President. It will explore attitudes about Penn State; perceptions of various practices in the work place; the importance of the University's values to different groups of employees; and the relationship between the University's values and its reward practices.

The purpose of the survey is to identify areas of the University that might be improved, and your participation will be greatly valued.

For more information about the survey, please see the OAS E-mail bulletin board CQI/CENTER.

Case Studies

Larry Spence, associate professor of political science and director of the Institute for Innovation in Learning, will offer a course on the application of quality principles to classroom teaching and learning.

Through a case study approach, participants will confront the advantages as well as problems in this approach. Topics include extrinsic versus intrinsic motivation; students as active workers in the learning process; designing learning experiences; fear and performance; and connecting the program content to the "real world."

This program meets for two sessions from 1 to 4 p.m. in 319 Rider Building.

If you would like to attend this course, please call (814) 865-8216 and refer to CQI Course No. 30.

Quality Expo '96

If you or a team on which you serve are registering for the third annual Penn State Quality Expo, please remember that the registration forms are due on Feb. 5. The Expo will be held on April 11 from 11 a.m. to 2 p.m. in the Nittany Lion Inn Ballroom.

If you have questions about the Expo, or would like a registration form, please call Carol Everett, 863-8721, or E-mail cle2@psu.edu.

Former CES Library Division head retires

John R. Kaiser, former chief of the CES Library Division, has retired after 31 years with the University Libraries. Mr. Kaiser held various positions within the Libraries, including bibliographic assistant, assistant acquisitions librarian, coordinator of collection development, and acting assistant dean and head of the CES Library Division.

In 1988, Mr. Kaiser received the University Libraries Award and became a Library Leader for his generosity to the Libraries. He is a member of the American Library Association and the Association of College and Research Libraries (ACRL). He has participated in many sections of ACRL including the

Extended-Campus Libraries section, the University Libraries section, and the Western European Subject Specialists section. In addition to his library activities, Mr. Kaiser also is a supporter of the SPCA and the National Wildlife Federation.

Mr. Kaiser earned a bachelor of arts degree in French and a master of arts degree in French and the romance languages at Penn State. He received a master of library science from Columbia University.

In retirement, he plans to spend more time at his country retreat in Yarnell, where he keeps numerous pets and tends flower and vegetable gardens.

and playing with my three grandchildren, and I also hope to continue writing short stories and poems. I'm even considering entering one of my short stories in *Wild Onions*."

Health information services assistant manager served for 25 years

Carol Harnes, assistant manager of health information services at The Milton S. Hershney Medical Center, retired after 25 years of service.



Carol Harnes

Ms. Harnes began at the hospital as a lead clerk and later became assistant director and finally the director of health information services. Three years ago, however, she decided to again become the assistant manager to prepare for her retirement. Her department, which started with eight employees, now employs 80 due to the growth of the medical center.

Ms. Harnes, who is looking forward to her retirement, said she already has a list of things to do.

"I'm going to buy a Bernese mountain dog to accompany me on my daily walks, join the YMCA so I can go swimming daily and take art classes. I also plan to spend more time with my two granddaughters," she said.

Two depart Hershey after extended careers

Central stores expeditor began her career at University Park campus

Lou Hall, expeditor for central stores in the Department of Purchasing at The Hershey Medical Center, has retired after a 25-year career.

Ms. Hall, who worked at University Park for five years, began a three-year stint as a cashier in financial management at the medical center in 1975, before transferring to her current position. As expeditor, she has been responsible for the prompt and cost-effective delivery of medical stock to the medical center.

Involvement in many committees and organizations, both as a leader and member, has played a large role throughout Ms. Hall's 25 years with Penn State. She was a member of the Ethnic and Diversity Committee and the Safety Committee, and participated in a focus group on merit pay. She was also elected as the clerical representative for The Hershey Medical Center Committee for Women, a position she held for six years. She has also served as chair for the Art Auction sponsored by the clerical support staff for the Children's Miracle Network.

Ms. Hall has been recognized for her participation in these many activities by the Penn State Commission for Women in their annual publication, *Achieving Women of Penn State*.

In her retirement, she said she looks forward to "reading

LECTURES

Distance education seminars begin Feb. 5

The Department of Distance Education, Continuing and Distance Education, will continue its professional development series during the 1996 academic year. The programs are designed to help the Penn State community explore a variety of operational models, definitions, technologies, and experiences related to the design, development and delivery of education at a distance.

New topics for 1996 will be offered in an informal format with opportunities for Q&A and discussion. These brown-bag presentations will be held over the lunch hour, in room 106 Mitchell, also called Studio D. No registration is necessary. The series includes:

■ **Feb. 5:** "Choosing from the Range of Possibilities: Media Selection for Distance Education," Ann Taylor, instructional designer,

Department of Distance Education.

■ **March 11:** "Designing and Developing Effective Videotaped Instruction," Frank Wilson, executive producer, Media Solutions, WPSX.

■ **April 1:** "Looking over the Cutting Edge: Designing for the New Internet," Jerrold Maddox, professor of art, College of Arts and Architecture.

■ **May 6:** "Building New Learning Environments and the Implications for Faculty," James Ratcliff, director, Center for the Study of Higher Education.

Throughout the year, new programs will be added. If you have additional topics related to distance education that you wish to explore, please call Ann Taylor at (814) 863-8294 or E-mail: atb3@cde.psu.edu.

Focus of talk is how life may have begun

The third lecture in the 1996 Penn State Lectures on Frontiers of Science, titled "Conditions Necessary for Life on Earth," will be given on Jan. 27 by James Kasting, professor of geosciences and meteorology.

Dr. Kasting will discuss how organic molecules necessary for the origin of life might have appeared on earth and how the origin of life might have been affected by the planet's continued bombardment by asteroids and comets.

The lecture will be held at 11 a.m. in Room 104 Classroom Building, is sponsored by the Eberly College of Science.

Parking is available at the HUB Deck parking garage on Shortridge Road.

For more information, contact the Eberly College of Science Office of Public Information by telephone at (814) 863-8453 or (814) 863-4682, or by E-mail at science@psu.edu.



Series highlights educational technology

During the spring semester faculty and staff are invited to participate in four free teleconferences on educational technologies issues, applications, and new tools. The Center for Academic Computing will sponsor three PBS teleconferences and Continuing and Distance Education will sponsor a teleconference produced by the Institute for Educational Technology. Each teleconference will be live, allowing for interaction with the presenters.

For more information on the content of the spring conferences, visit PBS's videoconference website: <http://www.pbs.org/ol/pbs/programs/cj/schedule.html> or at the IAT site: <http://www.iat.unc.edu/>.

To register for the spring conferences produced by PBS (conferences 1-3), please contact Danette Yakymac, Center for Academic Computing, by E-mail at dsx@psu.edu or at (814) 865-4757. To register for the conference produced by IAT, contact Cindy Galbraith, Department of Distance Education, by E-mail at CLG5@CDE.PSU.EDU at 865-5403 ext. 26.

■ **"Funding Educational Technology,"** PBS, 2-4 p.m. Thursday, Feb. 1, Studio C Mitchell Building, University Park.

Colloquium on physics takes a look at the edge of chaos

Stuart Kauffman of the Santa Fe Institute will present a physics colloquium at 3:30 p.m. Thursday, Feb. 1, in Room 101 Osmond Laboratory on the University Park Campus. The title of the talk will be "Coevolution to the Edge of Chaos."

Dr. Kauffman is widely considered to be the leading thinker on

the physics of self-organizing systems and the science of complexity as applied to biology.

A MacArthur fellow and a former professor of medicine at the University of Pennsylvania, he is the author of two books, *The Origin of Order* and *At Home in the Universe: The Search for the Laws of Self-organization and Complexity*, both

published by Oxford University Press.

His visit is hosted by the Department of Physics, which will hold a reception before the colloquium at 3 p.m. in the overpass between Davey and Osmond laboratories.

For more information call (814) 863-9594.

Former senator to give lecture on civic power

Harris Wofford, CEO of the Corporation for National Service and a former U.S. senator (1991-94), will be the first speaker in a newly established annual lecture series offered by the University Scholars Program at 7:30 p.m. Monday, Jan. 29, in the HUB Assembly Room on the University Park Campus.

Mr. Wofford will speak on "Cracking the Atom of Civic Power" as the inaugural talk of the Luchinsky Memorial Lecture. The lecture series was created to honor the memory of Mark Luchinsky, a University scholar who died Jan. 18, 1995. The annual lecture series is endorsed by his family and friends.

Mr. Wofford, who aided the start of the Peace Corps in 1961, helped form and chaired the Committee to Study the Idea of National Service in the 1970s. In 1987, as Pennsylvania secretary of labor and industry, he established and led Gov. Robert P. Casey's Office of Citizen Service. The office, known as Penn Serve, promoted school-based service and learning throughout the Commonwealth, managed the Pennsylvania Conservation Corps, and encouraged the formation of a number of summer and year-round youth service corps.

While in Gov. Casey's cabinet, Mr.

Wofford served on a National Governors Association Task Force on national youth service. In 1993, he worked with President Clinton's task force in drafting the National and Community Service Trust Act.

Mr. Wofford served in three national administrations: during the Eisenhower Administration as counsel to Rev. Theodore Hesburgh on the first U.S. Commission on Civil Rights (1958-59); as special assistant to John F. Kennedy from 1961-62, and also as special representative to Africa and director of the Peace Corps' program in Ethiopia; and as the Peace Corps' associate director during the Johnson Administration.

Mr. Wofford was an associate professor of law at Notre Dame Law School (1959-1960); president of the College at Old Westbury of the State University of New York (1966-1970); and president of Bryn Mawr College (1970-78). During World War II, he served in the Air Force.

He earned a B.A. from the University of Chicago in 1948, and in 1954, J.D.s from both Howard University and Yale law schools.

The lecture is open to the public. A reception will follow in the HUB Fishbowl.

■ **"Communicating Electronically: New Methods for Publishing, Sharing and Distributing Information,"** PBS, 1-3 p.m. Thursday, Feb. 15, Studio D Mitchell Building, University Park.

■ **"Coping with Changing Campus Culture,"** PBS, 3-4:30 p.m. Thursday, Feb. 29, Studio C Mitchell Building, University Park.

■ **"From Reality to Virtuality: New Tools for Distributed Learning,"** IAT, 2:15-4 p.m. Thursday, March 21, Studio D Mitchell Building, University Park.

Tapes of the fall 1995 teleconferences — *Multimedia Fair Use Guidelines* (tape 91186) and *Computer Conferencing: Alternative to Lectures* (tape 91185) — are available from Audio-Visual Services for class use or personal viewing. University Park faculty and staff should call Wanda Wagner at (814) 863-3202; faculty from other campuses should call AVS at (814) 865-6314. You also may request a tape by fax at (814) 863-2574. Provide your name, address, phone number, the days/times you'd like to borrow the tape, and course title and course number, if applicable.

Research

 Intercom
 January 25, 1996 **15**

Plane-copter hybrid may someday change the way you travel

It's a plane, it's a helicopter, no, it's a tiltrotor vehicle that may change the face of U.S. aviation not only in the design and fabrication of equipment but also in how people travel, according to researchers.

Able to fly like a conventional airplane but hover, take off and land like a helicopter, the military version of the tiltrotor aircraft, the V22 Osprey, has already been flight tested. These aircraft have oversized front-facing propellers — rotors — when cruising from place to place, which tilt upward to become horizontally oriented, helicopter-like rotors for takeoff and landing.

However, much must still be done before commercial tiltrotor aircraft can take off from downtown urban vertiports and fly the short hops now serviced by commuter airlines.

"With the tiltrotor aircraft, we will no longer need to have commuter planes following 757's on the runway at airports like Washington National," Edward C. Smith, assistant professor of aerospace engineering, said.

Dr. Smith and Anna Howard, a graduate student in aerospace engineering, are working with NASA to develop analysis techniques to design composite rotor blades for commercial tiltrotor aircraft that will help reduce blade stresses, lower hub vibration and improve reliability.

The tiltrotor is seen by many as a replacement for commuter aircraft of 50 or fewer seats. The aircraft will directly connect cities, especially in such densely populated areas as the Northeast corridor, via downtown vertiports.



Edward C. Smith, assistant professor of aerospace engineering, and graduate student Anna Howard are working with NASA to develop a commercial version of the tiltrotor.

Photo: Greg Grieco



The XV-15 tiltrotor aircraft is the military version of the vehicle. Researchers are working to adapt it for use in the private sector.

Tiltrotor flights will also replace many short commuter hops that now connect airline hubs.

The conversion from military to commercial passenger aircraft is, however, more complex than a paint job and softer seats. The V22 Osprey is designed to be bulletproof, and the wings and rotors

outside, to gain community acceptance. Like turbo-props, the frame and skin of the fuselage will probably be aluminum, but the wings will remain composite. Composites, and especially how they are arranged, are the key to controlling vibration and providing added stability, Dr. Smith said.

"Tiltrotors feature many safety improvements compared to conventional helicopters," Dr. Smith said. "The tiltrotor configuration, with one set of rotor blades on each wing tip, does not require a tail rotor, stabilizing the performance of rotorcraft for all weather, day and night operation."

The helicopter industry has also eliminated many of the hydraulic couplings for the rotors, instead using non-moving, non-fluid substitutions to improve maintenance and reliability, and provide damping to control noise and vibration. The researchers believe that tailored composite materials used at the rotor hub and in the blade could replace damping mechanisms and improve acceptability of the tiltrotor.

Common composite materials are epoxy and graphite, glass or Kevlar. These materials are produced in thin layers that are laminated to create the required flexibility and strength. Composites usually do not possess the same characteristics in all directions. They may be very flexible in one direction but rigid in the perpendicular direction.

"By carefully designing the orientations of the thin layers, the bending and twisting motions of the blade can be coupled together, thereby reducing vibration and improving stability of the rotor system," Dr. Smith said.

Dr. Smith and Ms. Howard have designed analytical tools and completed a feasibility study of coupled tailored composites in tiltrotor craft rotors and blades. This includes comprehensive finite element models of rotor blades. The researchers are currently developing a refined structure for flexible beams for bearingless rotors.

— Andrea Elyse Messer

Research



Safety
net fails
rural
elders

Compared to older residents in metropolitan areas, those in rural areas spend more years in poverty and have a significantly higher likelihood of slipping into poverty as they age, a study has found.

The study, led by Diane McLaughlin, research associate and assistant professor of rural sociology in the College of Agricultural Sciences, and Leif Jensen, assistant professor of rural sociology, also found that nonmetro widows face an especially high probability of becoming poor.

Looking toward the future, the researchers say that since "the greater vulnerability of rural elders is rooted in lifelong employment disadvantages associated with rural economies," economic development in rural areas could help break the cycle.

Keys to success for rural industrial plants

In rural areas, industrial plants succeed best in sites close to the firm's markets, and with workers willing to trade off higher wages for a better quality of life, researchers at Penn State and West Virginia University said.

"Industrial plants, such as those that manufacture wood products, can be an enormous boon to a rural or semi-rural area with a chronically high unemployment rate," Frank M. Goode, associate professor of agricultural economics, said. "However, economic development groups in rural counties need to exercise caution before pouring money and effort into plant start-ups that are doomed to fail."

"One common mistake made by these groups is the belief that if one wood products plant can make it, others can too. It's a copycat approach that backfires if the market for those products reaches the saturation point."

Dr. Goode and Rory Frasier, research associate with West Virginia University, studied 730 rural communities in 13 northeastern states.

Symposium on teaching, learning with technology seeks presenters

University faculty members are encouraged to submit a proposal for a presentation at the fourth annual Teaching and Learning with Technology Symposium, from 9 a.m. to 4 p.m. Saturday, March 30, at University Park.

The symposium, a forum for sharing ideas and techniques to improve teaching and learning through the use of technology, is sponsored this year by the Center for Academic Computing, Schreyer Institute for Innovation in Learning and Leonhard Center for Enhancement in Engineering Education.

The presentations should include a demonstration of the instructional methods and technologies.

Presentation topics may include:

- Active and collaborative learning environments;
- Video, graphics, animation, simulation, virtual reality and other newer technologies for instruction;
- Course-based communication through E-mail, the World Wide Web and other Internet applications;
- Models for innovative teaching and learning in the classroom, lab and at a distance;
- Any use of technology to enhance teaching and learning.

Proposals are due Feb. 20.

To submit a proposal visit the World Wide Web, visit the location <http://jets.cac.psu.edu/seminars/TLT/1996.html>.

For further information or to request a printed proposal form, send your name, address and a brief message to kmp138@psu.edu or call Karen Peters at (814) 863-7763.

For the Record

■ A story in the Dec. 7 issue of *Intercom* about a donation of genealogy material on the Eisenhower family made to the Penn State McKeesport Campus should have indicated that the volumes will reside in Pattee Library on the University Park Campus in the Eisenhower Collection in the Pennsylvania Room.

■ Applications for the UNCF-Merck Science Fellowships targeted to African American students, outlined in a Jan. 11 story on the Diversity page, are not currently available on the University Park Campus but may be obtained by contacting The College Fund/UNCF at (703) 205-3400.

Heads up



Project puts installation techniques to use

Special graduate student Amy Young sculpts several mini-portraits in plaster and wax. Ms. Young, who is also an exhibition preparator at the Palmer Museum of Art on the University Park Campus, made the sculptures as part of her graduate studies. Once she is done casting the small heads, she will place them in buildings on campus along window ledges and baseboards.



Photos: Greg Grieco

"The idea is to have them be camouflaged so that you have to look for them to see them," Ms. Young said.

Ms. Young said the techniques she's using to install these sculptures are techniques she learned while working at the Palmer Museum.

She said she chose to sculpt miniature busts because she wanted to create something that is recognizable to most people as art.



Intercom now on the Web

Portions of the *Intercom* are now available in electronic form.

Each Thursday, you can access stories appearing on that week's front page, as well as the current arts briefs, University Park calendar and special features. In addition, the site will occasionally include expanded information on stories appearing in that week's printed issue.

To view the *Intercom* home page, first visit the University Relations home page at <http://www.pubinfo.oud.psu.edu/> and then follow the link to *Intercom*.

Penn State Harrisburg names expanded CQI council

An expanded Continuous Quality Improvement Council has been appointed at Penn State Harrisburg.

Members include the provost and dean, provost's staff, division heads and school directors, the college's faculty senators and support unit directors and managers.

The purpose of the council, which met for the first time in December, is "to provide ongoing leadership in establishing and maintaining the continuous quality improvement effort at Penn State Harrisburg."

PENNSTATE INTERCOM

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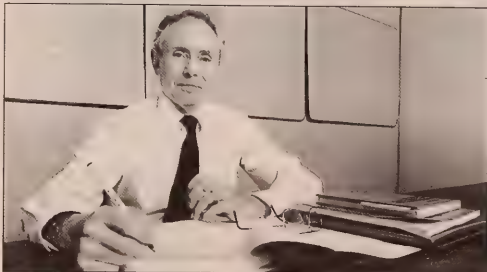


INTERCOM

February 1, 1996

Volume 25, Number 20

Engineering professor named director of NASA facility



Henry McDonald, assistant director for computational sciences at ARL and professor of mechanical engineering, will head up NASA's Ames Research Center in California beginning March 4.

Photo: Greg Grieco

Henry McDonald, assistant director for computational sciences at the Applied Research Laboratory and professor of mechanical engineering, has been named director of the NASA Ames Research Center in Mountainview, Calif.

Dr. McDonald will assume his new post on March 4 under the terms of the Intergovernmental Personnel Act (IPA). The IPA program provides for the assignment of university faculty members to the federal government to facilitate federal, state and local cooperation, and to strengthen the management capabilities of government organizations.

NASA has selected the Ames site to become its Center of Excellence for information technology and to continue leadership in air-space operations and astrobotics. The center has approximately 4,000 employees and was most recently in the news for its Jupiter re-

entry probe. In addition to information technology, aeronautical and space research, Ames has extensive flight and ground-based experimental facilities.

Before joining Penn State in 1991, Dr. McDonald was founder, president and chief executive officer of Scientific Research Associates Inc., Glastonbury, Conn. He also managed the company's computational physics laboratory which specialized in aero-, hydro- and gas dynamics, optical electronics and biomedical research.

While at Scientific Research Associates, Dr. McDonald was co-inventor of a patented, novel, ultra-high frequency ventilator which provides life support to critically ill patients suffering from Acute Respiratory Distress Syndrome (ARDS)—a disease that affects more

See "NASA" on page 3

Affirmative action

Feb. 3 conference to answer questions on controversial topic

In July 1995, the California State Board of Regents voted to end all affirmative action practices and policies in the entire University of California system. This followed the lead of Gov. Pete Wilson, who earlier in the year, eliminated the state's affirmative action policies.

The move has ignited the national debate on the future of affirmative action—or what some call reverse discrimination—which is the subject of a conference at University Park on Saturday, Feb. 3.

Penn State has an opportunity to solidify its affirmative action programs to the benefit of those who participate in them, according to those involved in the conference.

"What we will be seeing is less of a shotgun approach and more of a rifle approach, targeting more specifically on those who fit under the parameters of the law," Terrell Jones, deputy vice provost for educational equity and a presenter at the conference, said.

"Not all people of color are disadvantaged in finding employment and educational opportunities," Dr. Jones said.

See "Affirmative action" on page 2

Palmer Museum gets interim director

Maya F. Linda, assistant director of The Palmer Museum of Art on the University Park Campus, has been named the interim director of the museum. Dr. Linda will assume the interim position while a national search for a new director is conducted.

Kahren Jones Arbitman, director of the museum since 1990, is leaving the University to accept a position as director of the Cummer Museum of Art & Gardens in Jacksonville, Fla.

Dr. Linda, assistant director of the museum since 1992, is a specialist in the art of South Asia. Before coming to Penn State, she held positions at the Asian Art Museum in San Francisco and at The Asia Society Galleries in New York City. With grants from the J. Paul Getty Foundation and the University of Pennsylvania, she conducted research on South Asian art.

See "Palmer" on page 3

Inside

CONTINUING
& DISTANCE
EDUCATION

Special section

An extra in today's *Intercom* will inform you of the strides made in distance education.

Turn to pages 7, 8, 9 and 10 for innovations in Distance Education.



Intercom online

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DIVERSITY

Philadelphia locations highlight Hispanic cultures Celebration with other institutions planned

Chilean street theater. Flamenco dancers. Latin American arts and crafts. Best child contest.

The splendor of the Latino/Hispanic people—their art, history, food, films and more—will come to Penn State's Philadelphia campuses this semester during a multi-campus, multi-university celebration that will spotlight nearly every aspect of this diverse culture.

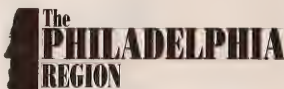
A continuation of the acclaimed Cultures of Asia program (1994) and Cultures of Africa program (1992), the Latino/Hispanic cultures series will combine art exhibits, an international film festival, special academic courses, dance and music, lectures and luncheons, museum trips, children's art exhibits and a national-scale conference.

This year, two other area universities—West Chester University and Cheyney University of Pennsylvania—join Penn State in co-sponsoring the program.

All activities are open to the public and nearly all are free. Most events take place at Penn State's Delaware County Campus, but many are also offered at the Great Valley and Abington-Ogontz campuses, as well as at West Chester and Cheyney. "In most institutions, cultural and multicultural activities become the province of just particular interested individuals," said **Connie Kirker**, assistant professor of integrative arts at the Delaware County Campus. "But I really wanted to broaden that involvement to include people in the humanities and the sciences—in as many different areas of the campus community and the environment of Philadelphia as possible."

Professor Kirker and **Robert Ginsberg**, professor of philosophy at the Delaware County Campus, created this series in 1992 with the Cultures of Africa program.

This year's program officially began on Jan. 24. This year's artist-in-residence, sponsored by the College of Arts and Architecture, Department of



PENN STATE LOCATIONS:
Abington-Ogontz, Delaware County, Great Valley,
Penn State in Philadelphia/An Urban Education Center

from 11 a.m. to 2 p.m. April 3, 5, 8 and 10. An exhibition of her work also will be held in the library April 1 through April 26.

A daylong conference, "Language, Learning and Politics in a Multicultural Society," will be held late in the semester. The conference will examine the issue of language in the United States, including failures and successes of various policies and methodologies. Presentations on issues including bilingual education, the English-only movement, teaching English as a second language, as well as foreign language instruction in U.S. schools will be discussed.

A five-part film series, "Buried Mirror: Reflections of Spain and the New World," will be held at the Delaware County Campus throughout the semester. The series will reflect on the diverse cultures of Spanish-speaking countries and people, together with the themes, institutions, beliefs and symbols that have endured and changed over time. More than 20 additional films will be presented with discussions at the other Penn State campuses and participating universities.

An excursion and study trip to Cancun, Mexico is being sponsored by the Abington-Ogontz Campus from March 2-8. A credit course will be taught in conjunction with the trip both on campus and on-site at the Mayan ruins of Chichen Itza and at a traditional Mayan village. For more information, contact the Office of Continuing Education at (215) 891-7396.

For a complete calendar of events for the entire semester-long program, contact **Connie Kirker** at (610) 892-1415.

Integrative Arts, is Puerto Rican-born visual and performing artist **Edda Santiago**, who now lives and works in Philadelphia. Ms. Santiago will work in an open studio in the Vapo Library at the Delaware County Campus

Affirmative action

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"It is fair to say that we have made progress, and affirmative action should be modified to reflect that progress. However, it is naive to suggest that we don't have any issues related to people who are still disenfranchised and have not had opportunities."

Penn State has and will continue to have a commitment to affirmative action said **James B. Stewart**, vice provost for educational equity. "Penn State has to be concerned about developments at the national level, since public policies have similar and cumulative effects throughout the higher education community."

Already, similar anti-affirmative action initiatives like those in California have been proposed in neighboring state legislatures, such as Michigan, prompting people to be on alert for a "domino effect."

A clear indication of just how one action can have a domino effect is the Bancker Scholarship controversy at the University of Maryland last year. A Hispanic student sued to get a Bancker Scholarship, which had been restricted to African Americans, and won.

"Even though the judicial decision referred only to the Fourth Circuit Court, the ruling raised expectations that similar decisions could be possible in other districts," Dr. Stewart said. "Institutions of higher learning have responded in an effort to be proactive to avoid litigation."

Part of that response is education. Dr. Stewart will be the keynote speaker at the Feb. 3 conference "Affirmative Action in Higher Education: Implications of the California Decision" sponsored by the College of Education. The conference is geared toward affirmative action officers, college and university administrators and faculty.

No matter how much progress has been made, resistance to affirmative action is as old as the policy itself, writes **Harold Cheatham**, a professor of education, in his book *Cultural Pluralism on Campus*. Dr. Cheatham also will speak at the event.

"Opponents of affirmative action call for race-neutral social programs in which equity will be derived by the affected groups through targeting specific individuals," he said. Those in charge will once again be able to select those whom they feel most comfortable with, and those they feel are more deserving.

Affirmative action in higher education is deserving of continued dialogue by its advocates and adversaries. As one university administrator put it, "the tools may change, but some form of affirmative action will be needed in the future because the playing field will not be level in our lifetime, and perhaps never." But another university administrator said "one of the blessings of the turmoil is that it has made us—the coalition of African Americans and Hispanic/Latino Americans—stronger and more cohesive."

As battle lines are drawn, those in higher education need to continue the dialogue as our society becomes more genuinely multicultural.

For more information on the conference this Saturday, contact 1-800-PSU-TODAY.

—Nancy Anita Williams

Speaker's Bureau members will share cultural messages

One of the components of Penn State's commemoration of Dr. Martin Luther King Jr. is a year-long focus on community service. The centerpiece of the community service is a Speaker's Bureau which features selected University administrators, staff and professors who are interested in sharing not only the message of Dr. King, but also stories of the many African American heroes, inventors, leaders, teachers and others, whose lives and accomplishments are celebrated during Black History Month.

The members of the Speaker's Bureau are especially interested in speaking to children from preschool through high school.

Members of the Speaker's Bureau include: **Roy Austin**, director of the Administration of Justice Program. Dr. Austin has written on the sociology of crime, adolescent violence and criminal history; **Bernard Bell**, professor of English and a protégé of the late Sterling A. Brown, the dean of African American letters. He has written about how music—jazz, blues, rap and spirituals—all have

shaped African American literature; head of the Department of African and African American Studies, **David McBride**, is an expert on contemporary medicine, including how AIDS can affect a whole community; **Lisa Williams Walton**, assistant professor of business logistics, can talk about minority and women-owned businesses.

For more information on the Speaker's Bureau contact: **Nancy A. Williams** at (610) 865-7517 or by E-mail at naw3@psu.edu.



Think green!

Like a breath of spring air, plants in this greenhouse on the University Park Campus are a welcome sign. Tiffany Weir, graduate student in plant pathology, while dressed for winter, goes inside the hot house to check her tomato plants for signs of disease.

Photo: Greg Gricio

NASA

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than 300,000 people in the United States each year. He and the other co-inventors of the ventilator were awarded the Small Businessman of the Year Award for High Technology by the state of Connecticut for their achievement.

Before founding Scientific Research Associates, Dr. McDonald was chief of the gas dynamics laboratory at United Technologies Research Center, East Hartford, Conn., where he investigated problems concerning heat transfer and gas dynamics relative to aircraft engine performance and design.

A native of Scotland, he earned his bachelor's degree in aeronautical engineering and doctorate in engineering from the University of Glasgow. After graduation, he worked for the British Aircraft Corporation, Watton, England, before emigrating to the U.S. At British Aircraft, he supervised wind tunnel testing as well as takeoff and landing characteristics of existing and theoretical aircraft designs.

Palmer

continued from page 1

While at Penn State, Dr. Linda was awarded a National Endowment of the Humanities Summer Stipend to reappraise existing paradigms of Hindu temple patronage in South Asia. Her research identified a variety of previously unrecognized patrons.

Since joining the Palmer, Dr. Linda has been instrumental in securing and supervising the presentation of several major exhibitions including *Planet Peru* and *Ancient Peruvian Ceramics, Dreamtime Australian Aboriginal Art from the Collection of John W. Kluge* and *Sleeping Beauties: African Headdresses from the Jerome L. Joss Collection at UCLA*. She also has helped secure grants for the Palmer from the National Endowment for the Arts, the Pennsylvania Council on the Arts and the Samuel H. Kress Foundation.

In the last five years, the Palmer Museum has undergone dramatic changes. Under the direction of Dr. Arbitman, who directed the design and construction of the new \$5.6 million Palmer Museum building, the facility has become widely recognized as a major cultural resource for both the University and central Pennsylvania, secured significant gift collections and grants, and organized numerous wide-ranging exhibitions, including an exhibition of Rembrandt etchings.

News in Brief

Basic LIAS offered

The University Libraries is offering basic get-to-know LIAS classes primarily geared toward undergraduates beginning Feb. 5 through Feb. 9. The 50-minute classes begin every hour on the hour, Monday through Friday, 10 a.m. to 6 p.m., in Central Pattee, Room 6.

Participants will learn how to find books, magazines, music, maps, and other materials; use important LIAS searching commands; locate materials using the online catalog from their dorms or homes, and much more. No registration is necessary.

ID card notice

Photographs for replacement of University Park staff/faculty ID cards that have been lost or damaged are now taken each weekday in Room 110 HUB. No appointment is necessary. The replacement fee is \$10. For more information, contact the ID HUB Office at 865-7590.

Stressed and anxious?

The Stress and Anxiety Disorders Institute is conducting an ongoing research study which offers free therapy if:

- 1) You have experienced excessive and uncontrollable worry or anxiety for at least six months.
 - 2) You also experience feeling "keyed up" or on edge, muscular tension, restlessness, difficulty concentrating, fatigue, sleep disturbance or irritability.
- People (ages 18-65) included in this study, funded by the National Institutes of Mental Health and under the direction of Thomas Borckove, Distinguished Professor of psychology, will receive 14 free sessions of psychotherapy as well as

assessments before and after treatment. A brief telephone interview with potential subjects is required to make a preliminary determination of the suitability of the program. Strictest confidentiality is maintained. If interested, call 865-1725.

Estrogen therapy study

Researchers at the Noll Physiological Research Center are conducting an estrogen therapy study for women between the ages of 45 and 65. Volunteers with the following characteristics should apply:

- 1) Post menopausal women who are not on estrogen replacement therapy;
- 2) Post menopausal women who have been on either of the following for more than two years: a) estrogen therapy; b) estrogen and progesterone therapy;
- 3) Women who have had a hysterectomy.

Volunteers will receive a stipend and a personal exercise prescription. For more information, contact Esther Brooks or Jane Pierzga at 865-1236; or Amy Morgan, research associate, at 865-0257.

Healthy volunteers needed

Male volunteers between the ages of 50 and 65 are needed for a research study being conducted by W. Larry Kenney, professor of applied physiology, and Amy Morgan, research associate, both at the Noll Physiological Research Center. The study is investigating gender-related differences in skin blood flow and plasma volume fluid shifts in response to exercise in the heat. Volunteers should be in good health, but not regular exercisers. The study requires three visits and subjects will receive a \$100 stipend and a personal exercise prescription.

For more information, contact Esther Brooks or Jane Pierzga at 865-1236; or Dr. Morgan at 865-0257.

"Know Your Numbers"

The faculty/staff Health Promotion division of the Office of Human Resources has been providing exclusive sessions of the cardiovascular health assessment program "Know Your Numbers" (KYNN) in sponsoring colleges and administrative areas for several years. Since last spring, almost 500 faculty and staff have participated in the program.

This semester, the KYNN program will go public with two open sessions for faculty and staff at the University Park Campus.

The cost of the program is \$15 (reimbursement available for HMO participants).

At the core of the program are four important screenings: total and high density lipoprotein (HDL) cholesterol, blood pressure and body mass index. Individual screening results and responses to a lifestyle questionnaire are evaluated together and a personal computerized cardiac risk profile is generated for each participant. Once completed, all results are reviewed with a health educator. The entire KYNN procedure takes about one hour.

Appointments are now being taken. An appointment request form appears in the spring *Health Matters* brochure or may be obtained by calling (814) 865-3085.

Dates for the sessions are:

- Sec. 1: Feb. 14 from 8:30 a.m.-3:30 p.m. in the Multi-Purpose Room, Writing Commons;
- Sec. 2: April 1 from 8:30 a.m.-3:30 p.m. in 310 Shields Building.

LECTURES

Swarthmore professor next in Medieval art lecture series

The College of Arts and Architecture Department of Art History continues its lecture series "The Fortune of Medieval Art in America" with a lecture by **Michael Cothren**, professor of art history at Swarthmore College. The lecture, titled "The Legacy of Ornament: Searching in the Glencairn Museum," will be held at 2 p.m. Sunday, Feb. 4, in the Palmer Lipson Auditorium of the Palmer Museum on the University Park Campus.

Dr. Cothren, a specialist in the study of the stained glass of medieval France, has published a number of articles on the windows of the abbey church of Saint-Denis, and the cathedrals of Rouen and Beauvais. He is currently preparing a vol-

ume of the *Corpus Vitrearum* dedicated to the stained glass in the Glencairn Museum, some of which is included in the current exhibition at the Palmer.

The lecture is planned in conjunction with the exhibition "Medieval Art in America: Patterns of Collecting 1800-1940" shown at the Palmer Museum through March 3. All lectures are free to the public.

The lecture series is intended to expand upon selected topics explored in the exhibition and its accompanying catalog. All lectures in the series are sponsored by the Institute for the Arts and Humanistic Studies and the Center for Medieval Studies.

Talk focus is early evolution

The fourth lecture in the 1996 Penn State Lectures on the Frontiers of Science, titled "Early Evolution of Life," will be given on Feb. 3 by **J. Gregory Ferry**, professor of biochemistry and molecular biology. Dr. Ferry will discuss the evolution of many fundamental features of life as we know it today, which he says most likely took place in microorganisms, some of which thrived in extreme environments of



very high temperatures, salinity and lack of oxygen.

The lecture, at 11 a.m. in Room 104 Classroom Building, is sponsored by the Eberly College of Science. Parking is available at the HUB Deck parking garage on Shortlidge Road. For information, contact the Eberly College of Science Office of Public Information by telephone at (814) 863-9453 or (814) 863-4682, or by E-mail at science@psu.edu.

Lawyer to speak on diversity at Berks

Christopher Taylor, an entertainment lawyer from Philadelphia, will speak on "The Campus of Difference" at the Penn State Berks Campus at 1 p.m. Wednesday, Feb. 7. His lecture will be in the Perkins Student Center and is free to the public.

He will present an interactive program developed by the Anti-Discrimination League. The audience will be asked to join in the "Name Game" to learn about the origins of names and the connection of family

histories with multiculturalism. Mr. Taylor will then lead the audience on a campus diversity hunt, challenging participants to question each other's knowledge of the people, traditions and history of various cultures in the world.

Mr. Taylor is a staff attorney with the Philadelphia Volunteer Lawyers for the Arts. He is also an associate with the firm Gracia, Francis and Associates which specializes in entertainment law.

Aztec origins to be discussed Feb. 18

Kenneth Hirth, professor of anthropology, will lecture on "In Search of Aztec Origins" at 4 p.m. Sunday, Feb. 18, in 101 Kern Building on the University Park Campus. He will examine the evolution of the Aztecs' military, political, and religious complex.

The lecture will be followed by the annual banquet of the Archaeological

Institute of America at the Nittany Lion Inn. All members and their guests may attend.

AIA lectures are sponsored by the Central Pennsylvania Society in conjunction with the Institute for the Arts and Humanistic Studies and the colleges of the Liberal Arts and Arts and Architecture.

Statewide tour continues

President **Graham B. Spanier's** statewide tour continues with a visit today to the Berks Campus, and a visit Feb. 6 to the New Kensington Campus.

At the Berks Campus, located just outside of Reading, Dr. Spanier will not only tour campus and meet with faculty, staff, students, advisory board members and alumni, he will also meet with a variety of community groups at a luncheon that day. President Spanier will travel on to Reading High School and, later, to an editorial board meeting at the *Reading Eagle-Times* and a tour of Arrow International—a medical equipment manufacturer.

The New Kensington Campus in the Pittsburgh area has arranged for the president to meet with three area Rotary Clubs and four area chambers of commerce, in addition to campus constituents. Later in the day, the president will meet with Valley High School students and administrators.

Below are some facts about each of these Penn State locations:

FAST FACTS ABOUT BERKS CAMPUS

Founded: 1958

Service area: Berks County and parts of Lebanon, Schuylkill and Lancaster counties

CEO: Frederick Gaige

Enrollment: 1,771

Employees: 55 full-time and 59 part-time faculty

Key programs: Offers bachelor of science degrees in electro-mechanical engineering technology, engineering and agriculture. Also offers the first two years of most of the 180 baccalaureate degree programs offered by Penn State.

FAST FACTS ABOUT NEW KENSINGTON CAMPUS

Founded: 1958

Service area: Allegheny, Armstrong, Butler and Westmoreland counties

CEO: Catherine C. Gannon

Enrollment: 983

Key programs: Offers associate degree programs in business administration; biomedical equipment technology; computer engineering technology; electrical engineering technology; letters, arts and sciences; medical laboratory technology; science-general; and science-radiologic technology. Also offer a baccalaureate degree in nursing and electro-mechanical engineering technology.

Conference seeks proposals for October presentations

Proposals for presentation at the first tri-annual Eastern Adult, Continuing and Distance Education Research Conference, to be held Oct. 24-26 at the Penn State Scanlon, are due March 15.

The conference is a continuing and distance education service of the College of Education, in cooperation with Indiana University of Pennsylvania, Widener University and the Pennsylvania Association for Adult Continuing Education. Its purposes are to:

- Provide a forum for practitioners, policy-makers, and both beginning and established researchers relating to the fields of adult, continuing and distance education to dialogue and network with their counterparts from throughout the eastern United States and Canada.

- Promote closer collaborative links across the three separate yet interrelated fields of adult education, continuing education and distance education.

- Encourage discussions on areas and issues of common concern to adult, continuing and distance educators.

All proposals will be peer reviewed by at least three individuals. Authors of accepted papers will be notified by April 22. To receive a Call for Papers brochure, call (800) PSU-Today, or visit the WWW site at: <http://www.cde.psu.edu/CE/EEast-AdultEducation.html>. For more information, contact **Peter S. Cookson**, professor-in-charge, Adult Education Program, 403 S. Allen St., State College, Pa.; Phone (814) 863-3781; Fax (814) 865-5878; E-mail cig@psuvm.psu.edu

University moves toward 'paperless society'

While most university administrative offices have yet to achieve the "paperless society," Penn State and other institutions are taking an important step in that direction.

Although still under development, a project known as Electronic Research Administration (ERA) holds the potential to eliminate volumes of paperwork and reduce the cost to Penn State of submitting faculty research grant proposals to the federal government. The means to this end involves direct submission of electronic documents from University computers to government computers.

In fiscal 1995, Penn State received more than \$200 million in federal grants based on the submission of almost 3,000 individual proposals. But getting that kind of result each year has historically meant weeks of back-and-forth hard copy revisions between faculty, their academic units' research offices, and the University's Office of Sponsored Programs for each proposal. Then, up to 20 copies of the final version are mailed to each federal agency that might fund the project.

At the request of those federal agencies that must annually deal with tens of thousands of proposals from across the country, experiments with various electronic solutions for easing the paperwork burden also are under way at other institutions.

In addition to Penn State, participants in the federal ERA demonstration project include Baylor College of Medicine, Duke University, Fred Hutchinson Cancer Research Center in Seattle, Massachusetts Institute of Technology, Southern University, University of California at Los Angeles and University of Notre Dame.

A project still under development holds the potential to eliminate volumes of paperwork and reduce the cost to Penn State of submitting faculty research grant proposals to the federal government.

One dilemma yet to be resolved: Which of the many available methods for submission has the best chance to survive rapidly advancing computer technology?

"We are currently testing a stand-alone system with the National Science Foundation, called Fastlane, that uses the World Wide Web," Robert Kiloren, director of the Office of Sponsored Programs, said. "But we don't see this working long-term for Penn State because the system is too cumbersome and the end proposal resides only on the NSF computer and not on a Penn State computer."

Mr. Kiloren said the real answer to electronic commerce between the federal government and universities is the development of proposal data standards so information can be transferred from a database at a university directly to a database at the sponsor. The standard that has been proposed is one that has been employed by industry for many years — Electronic Data Interchange (EDI). "With EDI, universities would have the flexibility to create proposals with their own spreadsheet software or with a standardized electronic proposal

kit that they could locate on a Web server," Mr. Kiloren said. "In either case, their proposals would be converted to the EDI standard and transmitted over the Internet to the proper agency."

The beauty of the EDI/Web solution is that it doesn't matter what kind of computer system the faculty member uses — MACs, PCs, Suns, etc. would all work with EDI.

Beside the NSF, Penn State is currently cooperating with several other federal agencies in developing the electronic solution, including National Institutes of Health, Department of Energy and Department of Defense.

Mr. Kiloren noted that an important side benefit to a government-wide project of this type may be the creation of a centralized database that could be shared by all federal agencies and universities. This centralized database could contain institutional profile information that could be retrieved instantaneously by either the Feds or by universities.

A university would then only have to update one database to keep all the federal agencies it does business with informed about current indirect cost rates, regulatory compliance and business contacts.

"We still have a long way to go and there are many issues yet to be resolved," Mr. Kiloren said. "For instance, we must tackle concerns about data security, electronic signatures and, most importantly, ensuring that the technical parts of the proposal — the formulas, graphs and pictures — are all transmitted to the sponsor with total fidelity to the original document."

—Gary W. Cramer

Faculty/Staff Alerts

Salvage and Surplus hours

The Salvage and Surplus store is open Monday through Friday from 9 a.m. to 3 p.m. Selected equipment, fleet automobiles, trailers, and surplus materials are available for sale to the general public. All items are priced by Salvage and Surplus and are sold on a first-come, "as is" basis.

A division of the Office of Business Services, Salvage and Surplus is responsible for the collection, sale and disposal of all University-owned equipment, supplies and materials that are obsolete or surplus to the needs of Penn State.

Scanticon special rates

The Penn State Scanticon at University Park is offering a special reduced meeting rate per person (\$30) through February. The fee includes breaks served in the Conference Lounge, a luncheon buffet and meeting room with standard audio/visual equipment. For more information on the special rate and available dates, contact Ellie Traino at (814) 863-5013.

Upcoming HRDC courses

Several courses are being offered by the Human Resource Development Center.

To see a description of each course, log-in to the Intercom Web Site from the home page of the Office of University Relations at URL <http://www.pubinfo.coud.psu.edu>. To register for

free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog.

Serenading Punxsutawney Phil

By invitation, the Penn State International Dance Ensemble singers will serenade Punxsutawney Phil on Feb. 2 — Groundhog Day — with their rendition of the "Star Spangled Banner" as Phil emerges from his burrow to predict either six more weeks of winter or an early spring. The event is scheduled to be broadcast live on CNN and local stations WTJH-TV10 in Altoona and WJAC, Channel 6 in Johnstown.

The International Dance Ensemble, led by Elizabeth A. Hanley, assistant professor of exercise and sport science, is in its 18th year and has performed throughout Pennsylvania, Maryland, Ohio and abroad in Slovakia. The singers are under the direction of Clay Robeson, student assistant director.

Faculty/staff night

Be on hand for an afternoon of fun and excitement at Recreation Building on the University Park Campus at 2 p.m. Saturday, March 16, when the Lady Lion Gymnastics Team takes on the Nebraska Cornhuskers and the West Virginia Mountaineers. All faculty and staff showing their ID will be admitted free with a guest.

Online services

Campuses, colleges, departments or units that are providing innovative services and information online that the University community as a whole would find useful should contact Doug Stanfield, technology writer for the Intercom, via E-mail at dws9@psu.edu to publicize their site.

Preventing abuse nominations

The University community is being asked to help identify and reward individuals or groups that are making a significant contribution toward the prevention of alcohol, tobacco and other drug abuse.

The Penn State Council for the Prevention of Alcohol, Tobacco and Other Drug Abuse is seeking nominations of people or organizations that have displayed a dedication to prevention of abuse through innovative programs and leadership, beyond the expectations of their positions. Nominations are due by Feb. 23.

Any Penn State faculty, staff, student, student organization or individual within the local community is eligible. Last year, 22 groups and individuals were recognized for their efforts. Past awardees may be recognized for their work with a new program, but may not receive an award for the same program twice. For a complete list of past awardees or to request a nomination form, contact Ann Hollendendner at (814) 863-0461 or by E-mail at ach108@psu.edu, or stop by 237 Rittenour Building on the University Park Campus.

The ARTS

AT PENN STATE

Intercollegiate String Ensemble to perform

The Pennsylvania Intercollegiate String Orchestra will perform at 3 p.m. Sunday, Feb. 4, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The ensemble, composed of collegiate musicians from colleges and universities throughout Pennsylvania, will perform works by Tchaikovsky, Mahler, Respighi, Dvorak, Bach and Penn State composition Professor Paul Barsom.

The orchestra will be conducted by **Pu-Qi Jiang**, director of orchestral activities and music director of Music at Penn Woods.

The concert is free to the public.

Memoir reading

Mya Karr will read from her best-selling memoir *The Liar's Club* at 7:30 p.m. Monday, Feb. 5, in the Penn State Room of The Nittany Lion Inn on the University Park Campus. The reading is open to the public.

The Liar's Club, which tells the story of a childhood lived with an unpredictable alcoholic mother, has been nominated for a National Book Critics Circle Award for nonfiction. Ms. Karr is also the author of two books of poems and teaches creative writing at Syracuse University. Her visit to Penn State is sponsored by the M.F.A. Program of the Department of English, The Fisher Foundation, The Mary Rolling Fund and The Institute for Arts and Humanistic Studies.

Faculty recital

John Daniel, assistant professor of music, will give a recital of trumpet music at 8 p.m. Monday, Feb. 5, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. He will be assisted by pianist **Jeff Lawlis**.

The concert is free to the public.

Odyssey Through Literature

On the next episode of *Odyssey Through Literature*, **Susan Albertine** of Susquehanna University discusses 19th-century businesswomen and their journey to success.

She explains to host **S. Leonard Rubinstein** the concept of the "woman's sphere," the behavior that was

expected from women of that time period.

Odyssey Through Literature is produced at WFSX-TV as a continuing education service of Penn State's Department of Comparative Literature. It airs Wednesdays at 7 p.m. on WFSX, 91.5 FM.

Award-winning philharmonic

Winners of the Penn State Philharmonic Orchestra 1995-96 concerto competition will be featured in a performance by the Philharmonic at 8 p.m. Wednesday, Feb. 7, in Eisenhower Auditorium on the University Park Campus. The winners were chosen for their performances in a competition with other Penn State student musicians.

Accompanied by the Philharmonic Orchestra, each winner will perform as a featured soloist. The program also will include the orchestra's performance of Beethoven's "Consecration of the House," and Sibelius' well known "Finlandia."

Admission is \$4 for adults; \$2 for students. For ticket information, contact the Eisenhower Auditorium Ticket Center, open Monday through Saturday, 8:30 a.m. to 4:30 p.m., at (814) 864-0255. Outside the local calling area, phone (800) ARTS-TIX.

"Celebration of Love"

The Penn State Chamber Singers will present the 10th annual "Celebration of Love" concert at 7:30 p.m. Saturday, Feb. 10, in the Rotunda of Old Main on the University Park Campus. To cover the expense of a reception at the conclusion of the concert, a \$10 ticket is required for admission.

The "Celebration of Love" tradition was started in 1987 as a tribute to the late Professor Emerita **Willa Taylor**. The singers are the select members of the Chamber Singers, chosen from among the members of the Penn State Concert Choir. The harpist for the event will be **Elizabeth Eiters Asmus**, and the readers will include professors **Helen and Lowell Manfull** as well as two acting majors, all from the College of Arts and Architecture Department of Theatre Arts.

Seating in the Old Main Rotunda is limited. Those interested are encouraged to reserve space early by calling (814) 863-2142, or writing to 114 Arts Building, University Park, Pa. 16802.



Plucky bunch

The Turtle Island String Quartet will play at 8 p.m. Friday, Feb. 2, in Schwab Auditorium on the University Park Campus as part of the Center for the Performing Arts series. For tickets, call (814) 863-0255.

"We Are The Dream"

"We Are The Dream," the original dramatic presentation written by visiting professor of theater **Charles Dumas** and performed in Eisenhower Auditorium on Martin Luther King Jr. Day, will be broadcast over WFSX-TV at 10 p.m. Friday, Feb. 16, and is featured in the February *WFSX-TV Members' Guide*.

The 45-minute presentation uses poetry, music, dance and theatre to portray the story of the African-American struggle for freedom. It features students from the Department of Theatre Arts, School of Music and the NOMMO Dancers.

Cellist at Carnegie Hall

Cellist **Kim Cook** will perform a recital at 8 p.m. Monday, Feb. 19, at the Weill Recital Hall at Carnegie Hall, New York City. She will perform the Sonata for Violoncello Solo Opus 8 by Zoltan Kodaly, and will collaborate with pianist **Carl Blake** on another piece.

She has performed as a soloist in Austria, Germany, the Czech Republic, Italy, Russia, Finland, Brazil, Mexico, Puerto Rico and the United States. Ms. Cook has recorded several CDs and was recently chosen Artistic Ambassador for the United States Information Agency for a six-week international concert tour later this year.

She holds a master of music degree from Yale, where she received the Maxwell Belding Award. As a prize winner of the International Cello Competition in Brazil, she premiered a concerto live on Brazilian National Television. Ms. Cook was principal cellist of the State Symphony of São Paulo for three years, and taught at the Universidade Mozarteum, as well as the International Music Festivals in Gramado and Campos do Jordão. She was on the faculty at New Mexico State University before her current appointment as associate professor of music in the School of Music.

Carl Blake holds three degrees in

piano performance; the bachelor of music (magna cum laude) from Boston University, the master of arts from San Jose State University and the doctor of musical arts from Cornell University. He is the first recipient of the Marian Anderson Young Artist Award which led to a year of private study with Pierre Sancan of the Paris Conservatory of Music. As a concert artist, he has performed throughout the United States, as well as in France, England and Jamaica. Dr. Blake appeared in a solo debut recital at Carnegie Recital Hall in 1986 and is currently the associate director of the Institute for the Arts and Humanistic Studies and assistant professor of music at Penn State.

Tickets for the concert are \$15 general admission; \$10 students, and are available through Carnegie Charge at (212) 247-7800.

"Reveries of Fire and Water" shown in Pattee

"Reveries of Fire and Water," an exhibition of oil paintings by **Kay Picart**, is on display in Pattee Library's Lending Service Gallery on the University Park Campus through Feb. 29.

For the works in this exhibition Ms. Picart has drawn from her philosophical background and from her heritage as a woman born and raised in the Philippines.

Ms. Picart is currently working on a graduate degree in philosophy at Penn State.

Student drawings on permanent exhibit

Penn State student drawings titled "Joe Camel a la Fernando Botero" are on permanent display at the Tobacco Taverne, 256 E. Calder Way, in downtown State College.

The drawings were donated by architecture students enrolled in the fall '95 Arch 121 visual communication course taught by **Richard Alden**, assistant professor in the College of Arts and Architecture Department of Architecture.

INNOVATIONS IN DISTANCE EDUCATION

DEVELOPING THE INSTITUTIONAL CULTURE FOR DISTANCE EDUCATION

In 1992, a University-wide task force urged Penn State to move distance education into the mainstream of the University's academic life. Penn State's approach, which has become a model for many other institutions, has put Penn State into a leadership role in this rapidly evolving dimension of higher education at a time when many faculty are exploring the new technologies that support teaching at a distance.

Putting Penn State at the forefront of distance education requires developing a new culture on campus and a legion of faculty advocates to help their colleagues negotiate the maze of technologies and pedagogical innovations that distance education makes possible. The questions became: how do you encourage the faculty to shape an instructional philosophy to guide the evolution of distance education, and how do you enable faculty to work across disciplines and applications?

Innovations project supports faculty

Some answers are evolving through Creating the Institutional Culture for Distance Education, an initiative funded by the AT&T Foundation that is drawing faculty members at Penn State, Cheyney University and Lincoln University, as well as high-level administrators from Big Ten and historically black institutions, together in an unusual consortium.

Gary Miller, assistant vice president for distance education, who is director of the project, says, "There is a significant body of interest at this university in using technology to enhance the teaching-learning environment. Distance education is part of that change process, one of the tools to make that change happen."

Through the Innovations in Distance Education (IDE) component of the initiative, selected faculty are developing distance education courses using a variety of technologies and approaches. They are working across disciplines with support teams of Penn State continuing and distance education professionals to reflect on their experiences and to develop jointly a set of principles to help guide their colleagues who wish to develop distance education courses in the future. The support teams are directed by Larry Ragan, director of instructional design and development for Continuing and Distance Education.

Twenty-one faculty members from the three universities are involved. Four faculty members — three from Penn State and one from Cheyney — have been funded in the first year of the project. Each funded faculty member is supported by a team of instructional specialists and faculty members from across the university who are already involved in distance education. In the second and third years of the project, different faculty members from the original pool of 21 will be funded to develop courses. Funding provides faculty members more time to devote to their individual projects, to work with their peers, to attend distance education conferences and workshops and to reflect, as part of a faculty team, on the pedagogical issues and opportunities involved in distance education.

Throughout the year, the project provides faculty professional development opportunities that include sessions developed by the Department of Distance Education, monthly seminars on distance education issues from the American Center for the Study of Distance Education and selected workshops on instructional tech-

nology organized by the Center for Academic Computing.

At the end of each year, a special conference will be held for the University community. Funded faculty will share the insights they are gaining through the course development process and serve as resources for faculty university-wide who wish to develop distance education opportunities.

Concurrent with the faculty development component, a series of symposia bring together high-level administrators and faculty from 20 institutions to address traditional policies that create barriers to embracing distance education university-wide (See related story on page 3 of this special section).

The new learner-centered community

New technologies increase higher education's reach while resources available for distance education courses are creating a new kind of learning community, Miller says. Interactive video, World Wide Web pages with links to resources beyond Penn State, CD-ROM, computer conferencing, chat rooms on-line, and listservs for students are some of the avenues being explored and used in the new courses. These technologies are not only changing the way information reaches the learner, but they are also shifting the way people learn.

"Distance education originally gave students some control over the environment in which they studied," says Miller. "They could study when and where they wanted to, and they had more control over the pace. Newer distance education technologies are providing even more learner-centered approach, giving students increased access and control over learning resources and creating a new kind of learning community."

As a result, faculty can design courses that create new kinds of relationships between students and instructors, and between students and the subject matter of a course. Deborah Klevans, project manager, says that through the IDE project, faculty will be able to explore pedagogical as well as the instructional design issues associated with new approaches to distance education whether they are intended to enhance opportunities at campuses, to bring resources to campus from beyond the University, or to reach learners at home or at the workplace nationally or internationally.

Seven or eight years from now, Miller is convinced, the term distance education will fade from use. Traditional instruction and distance education will become, he believes, all part of "doing our work." This project is a first step in helping faculty and administrators blur those lines and supporting faculty as they begin enhancing their curricula using distance education.



Jerrold Maddox (right), Penn State professor of art, talks about integrating distance education technologies into academic programs during a meeting of the Steering Committee for the project *Creating the Institutional Culture for Distance Education*. He is shown with, from left, Sara J. Parks, associate dean, College of Health and Human Development, and Donald W. Leslie, associate dean, College of Arts and Architecture. Photo by Dick Hobay.

PENN STATE



Continuing and Distance Education

SERVING 1,000-PLUS STUDENTS

In the last five years, the number of nutrition majors at Penn State has doubled, but the number of faculty has not grown proportionally. For Mary Frances Picciano, who coordinates the teaching of Nutrition 251 with more than 20 sections and 1,100 to 1,400 students per semester on the University Park and CES campuses, distance education techniques will help maintain quality and make the course consistent across all sections.

It has taken her five years to standardize the text across all sections, generate a course outline, specify the amount of time spent on individual topics, and provide 800 test questions to instructors. Through the IDE project, Picciano is exploring the technology available to enhance resident instruction.



"Learning the technology is difficult," she says. "It's another body of knowledge. We have wonderful resources on campus, but you have to find out what they are. My team has been wonderful in directing me to individuals for training sessions."

Picciano selected the World Wide Web to support in-class instruction, but she says constructing it has been slow. "You can't just put your lecture notes up there. You can use the Web for interactive instruction and to direct students to related

sites on-line to explore subject matter in greater depth." The Web portion of the course will be available this fall.

Nutrition 251 is already offered as a distance education course through Independent Learning and will continue in that format. But Picciano wants to provide a complete technology-based version of the course for students at a distance that also can be used as a teaching adjunct for students in resident instruction sections. Distance education students will have access to all of the Web information plus on-line chat rooms and, eventually, to PictureTel sessions.

"The biggest problem is making distance education personal," says Picciano. "Interactive video will give all students access to the instructor."

Another balancing act for Picciano is making sure the Web section is interesting and provides links to an on-line library without becoming so complex that it limits access only to students with sophisticated software. "One of the best things we can do is provide a road map to sites on the Web that are really informative," she says.

Because nutrition programs are limited throughout the country, Picciano sees expanding distance education opportunities as another way Penn State can meet its primary mission. "We can bring courses to a broader audience in state and outside," she says. "Distance education is a new and exciting medium of instruction. I'm just fascinated with the possibilities in terms of how to communicate knowledge."

CONSISTENCY ACROSS THE CAMPUSES

A new core course for sophomores in The Smeal College of Business is making use of distance education technologies to ensure that the course is consistent for students on all Penn State campuses.

Philip Cochran, who team teaches B A 243 (Social, Legal and Ethical Environment of Business), was already moving down the technology road for the course when the IDE project came along. Tapped as one of the first-year funded projects, B A 243 is being developed so that it doesn't matter if students are in the large lecture hall on the University Park Campus, on any of the CES campuses or anywhere else in the world. Since half of the juniors in The Smeal College come from CES campuses, ensuring the consistency of the course across all locations is important.



While investigating how he'll develop the next step of the course, Cochran started using the World Wide Web. He now puts his presentations on the Web as well as on the University LAN so students can review them. A computer lab component is

being developed that will allow students to go through simulated decision-making processes for problems in business and see how decisions affect a company.

Through the IDE project, Cochran is exploring CD-ROM and interactive video for CES students and is developing self-study questions and review quizzes to put on the Web. Students will be able to take the quizzes and find out immediately if their answers are right or wrong and, if appropriate, why they are wrong. He also plans to use E-mail to create a virtual classroom.

"With 400 students, it's hard to have a class discussion," he says. "With the virtual classroom, we can start a discussion in class, then students can continue it on-line." Cochran says on-line discussions may encourage students who are more reticent to speak in class to become involved in discussions.

As a first-time distance education professor, Cochran says he is not hesitant to try new technologies. The team he is working with has helped him figure out how to present ideas quickly and clearly to students at a distance, and that has helped him improve his in-class presentations at University Park.

"No one knows how this will work out," he says. "We need to assess the process continually, find out what is working, what isn't, see how students do on the exams and how much they retain. Our first survey of students in the big lecture hall version of the course showed that nearly 90 percent were very satisfied or satisfied with the use of new technologies."

"Most people realize this is how we will have to teach in the future." The biggest frustration, he says, is that technology is changing so fast it is not clear what is the best way to go. "You don't know which way to jump," he says.

"My team has been wonderful in directing me to individuals for training sessions."

Mary Frances Picciano
Professor of nutrition

"I am convinced that some of the new technologies will blur and eventually even erase the line between traditional and distance education."

Philip Cochran
Associate professor of
business administration

Photos by Dave Shelly

INNOVATIONS IN DISTANCE EDUCATION FACULTY

In addition to this year's funded faculty (Craig A. Bernecker, Philip L. Cochran, Mary Frances Picciano), Penn State faculty involved in the project include:

Thomas R. Berner, professor of journalism, who will explore ways to deliver a 200-level literature of journalism course to University Park and CES campus students;

Gregory S. Forbes, associate professor of meteorology, who will develop an introductory meteorology course for students at CES campuses;

Robert L. Jones, director of predoctoral education, and Glenda H. Shop, academic and faculty development coordinator, at The Milton S. Eisenhower Medical Center, who want to develop a networked, computer-based communications system for third- and fourth-year medical students working in rural, small towns in the state;

Jeffrey L. Kohler, associate professor of mining engineering, who is developing a course on minerals and society for advanced placement high school students and non-science undergraduate students;

Judy L. Ozment, associate professor of chemistry, who hopes to develop a way for chemistry faculty and students to communicate electronically using scientific symbols and notations to facilitate scientific discussions at a distance;

Joan S. Thomson, associate professor of agricultural sciences, who wants to transform an introductory course on food and agricultural sciences into a student-centered, self-paced seminar;

Alan D. Stuart, associate professor of acoustics, who is developing a math review course for engineers who have been out of school for several years and for students at

CES campuses;

William J. Kelly, associate professor of theatre and integrative arts, who will integrate video documentaries and other materials in the creation of an interactive multimedia text for a course on popular culture;

Robert J. Lesniak, associate professor of education, Penn State Harrisburg, who will adapt a certificate program course in training and development for delivery through interactive video and the Internet;

Brad G. Johnson, lecturer of engineering/plastics, The Behrend College, who will develop a course on plastics that can be presented in modules to industry professionals and CES students.

Kyle L. Peck, associate professor of education, who will develop digital resources to enable graduate students at remote locations to create multimedia presentations for schools.

Carol A. Wright, associate librarian, and Elizabeth Walker, information technology associate, of University Libraries, who want to enhance a course on the management of archives and source materials in all media.

Other participating Penn State faculty include Peter H. Maserick, professor of mathematics, and Dennis Rogers, associate professor of Spanish.

Faculty members participating from the Project's partner institutions are James Flemming, associate professor of education, Cheyney University, and Mazharul Huq, associate professor of physics, Lincoln University.

BRINGING PROFESSIONALS AND STUDENTS TOGETHER IN THE CLASSROOM

Craig Bernecker was considering developing a distance education version of his illumination engineering course when the IDE project started on campus. He had limited experience developing print-based Independent Learning courses but none with the new technologies available, so the opportunity to become a first-year funded faculty member in the project came at just the right time. Bernecker estimates that through the first semester he has attended around 20 training sessions and seminars on distance education technologies and concerns.

Bernecker's illumination course is a perfect example of the reciprocal benefits of distance education. Penn State is one of only five institutions in the country to offer illumination engineering courses. Most of the 10,000-plus professionals in the field have little formal education and have, for the most part, moved into it from creative arts, such as theatre lighting design. Architects and interior designers are the other major groups that may develop specialties in building lighting design.

"There are many out there who are missing the fundamental principles of lighting design," Bernecker says. He estimates as few as 10 percent of the lighting professionals have any formal education.

Through the IDE project, Bernecker is developing materials for

interactive video presentation of his illumination course. Students at a remote site will participate directly with a class from University Park. The live, two-way audio-video system will allow distance education students and resident students in the class to see each other and interact with Bernecker concurrently. Although interactive video requires that distance students be at the remote site during the actual class time at University Park, Bernecker sees this as a great advantage.

"My resident students will be able to take advantage of the knowledge of the professionals," he says. But the professionals will also have valuable live interaction with him.

During the spring semester, Bernecker will experiment with several sessions via interactive video. Next fall he plans to offer the course to students in New York City, where the majority of lighting designers work. Eventually he will add other sites, such as Chicago and San Francisco, so there will be four live sites for each meeting of his course. Because the facilities on campus for interactive video classes are smaller than his normal class size now, extra sections may need to be added. In addition to interactive video, Bernecker is exploring a student listserv that will allow out-of-class interaction among students and between him and his students.

"I look at this as an opportunity to enhance my presentation materials for resident students," he says. "I am using technologies that will deliver education in a better way. Once you are aware of what's available, so many opportunities occur to you."

"The support teams that have been set up to help execute these projects and courses have been fantastic."

Craig Bernecker
Associate professor of
architectural engineering

"Distance education affords an exciting opportunity to reconsider the teaching-learning process. We need to consider what the barriers are that stop us from moving forward quickly."

Deborah Klevans
Project manager

LOOKING AT POLICIES

With distance education poised to move into the mainstream, universities around the country are struggling with how existing policy issues relate to new ways of providing education.

Through a series of invitational policy symposia, top administrators from Penn State and 20 Big Ten and historically black institutions are exploring basic policy assumptions and searching for solutions.

University policies have evolved over hundreds of years to support classroom instruction on campus. Distance education has operated on the periphery of these policies for more than a century. Today, the distinction between classroom-based and distance education is beginning to blur. With the integration of new technologies, distance education media and methods are being used to share courses among Penn State campuses, to enrich campus-based instruction and to reach audiences beyond the University.

In early October 1995, representatives responsible for distance education from 20 institutions met at The Penn State Scanticon Conference Center Hotel for the first of several policy symposia to begin discussions that will help universities refine and reshape their policies to support the new learning environments.

"New policies need to integrate, not merely accommodate, distance education," says Debra Shaffer, associate project manager, who coordinated the team that organized the symposium.

The symposium agenda grew out of a three-round Delphi study that pinpointed administrative issues as among the key policy barriers for distance education. Symposium participants were asked to develop a list of guiding principles to help universities direct policy development. They identified several specific administrative and financial issues for institutions to consider.

For example, one of the primary policies examined was the residency requirement for students. Developed when universities assumed that all students would complete their course of study on campus, many current policies restrict the ability of faculty to deliver courses off-campus through distance education. Many institutions, for instance, define a course by the number of class sessions or require that students take a certain percentage of their programs in residence.

Other issues addressed included recognizing distance education courses as comparable to resident courses, including distance education courses as part of a regular faculty load instead of as an extra responsibility, providing adequate technology support for faculty, establishing an appropriate administrative structure for distance education, determining how the distance education infrastructure is

supported financially, and exploring resource sharing with other institutions.

A second symposium will focus on policies that support faculty incentives and rewards for participating in distance education and will be held in the fall of 1996.

Guidelines that come out of the policy symposia will provide a multi-institutional perspective on issues and how peer institutions have approached solutions. These guidelines will help Penn State and other institutions consider how to reshape policies to draw distance education into the mainstream of higher education today.

Hosting the distance education policy symposium was timely because Penn State has established a university-wide distance education advisory committee to make recommendations about how the University should react to policy issues surrounding distance education. Each issue the committee is considering has been assigned a policy steward. These policy stewards range from budget officers to deans and the faculty senate.



Faculty Orientation, August 1995

Left to right, seated: Kyle L. Peck, Gregory S. Forbes, Carol A. Wright; Second row: Judy L. Ozment, Elizabeth Walker, Joan S. Thomson, Mary Frances Picciano; Third row: Glenda H. Shoop, Peter H. Mastic, Thomas R. Berner, Robert J. Lennick, Maiboral Hup; Back row: Alan D. Stuart, Philip L. Cochran, Brad G. Johnson, Jeffrey L. Kohler

INNOVATIONS IN DISTANCE EDUCATION STEERING COMMITTEE

Peter D. Bennett
Senior associate dean and professor of marketing
The Smeal College of Business Administration
Penn State

Patricia A. Book
Associate vice president and associate dean
Continuing and Distance Education
Penn State

Joseph S. DiGregorio
Associate dean for commonwealth, continuing and
distance education and international programs
College of Engineering
Penn State

Deborah R. Klevans
Associate director for program planning
Continuing and Distance Education
Penn State

Donald W. Leslie
Associate dean for undergraduate studies
College of Arts and Architecture
Penn State

Jerrold Maddox
Professor of drawing and painting
College of Arts and Architecture
Penn State

Eugene R. Melander
Associate vice provost, undergraduate education
Penn State

Gary E. Miller
Assistant vice president for distance education
Continuing and Distance Education
Penn State

"Distance education done right can make a
world of difference for our university and the
students we can serve."

Judy Ozment
Associate professor of chemistry
Abington-Ogontz Campus

"Participating in IDE allows me to investigate
and interact with others about the complex and
poorly understood pedagogical issues of
distance education."

Jeffrey Kohler
Associate professor of mining engineering

"The learning communities of the future will be self-motivated and self-assessing with
the emphasis on faculty-student and student-student interactions. The IDE project will
help us break out of the traditional concept that learning happens only in a classroom."

Eugene Melander
Associate vice provost, undergraduate education member, IDE steering committee

Michael G. Moore
Associate professor of education and academic director
American Center for the Study of Distance Education
Penn State

Sara J. Parks
Associate dean for the CES and international programs
Associate professor
College of Health and Human Development
Penn State

Clinton W. Pettus
Vice president for academic affairs
Cheyney University

James L. Ratcliff
Professor and director
Center for the Study of Higher Education
Penn State

Peter A. Rubba
Professor of education and department head
College of Education
Penn State

James H. Ryan
Vice president and dean
Continuing and Distance Education
Chair, Steering Committee
Penn State

Al J. Turgeon
Director, distance education in agricultural sciences and
professor of agronomy
College of Agricultural Sciences
Penn State

Richard C. Winchester
Vice president for academic affairs
Lincoln University

"As educators, we need to
continually improve our
methods of instruction.
Through IDE, faculty will
be able to reach beyond
the classroom and realize
that quality education can
be delivered in new and
innovative ways."

Donald Leslie
Associate dean for
undergraduate studies
College of Arts and
Architecture
member, IDE steering
committee

For more information about the project, call 814-865-7679

INNOVATIONS IN DISTANCE EDUCATION

This publication is available in alternative media on request.
Penn State is an affirmative action, equal opportunity university.

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UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, February 1

Black's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Clarinet Choir.

Center for Academic Computing, 2-4 p.m., Studio C, Mitchell Bldg. PBS teleconference: "Funding Educational Technology." Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Sarah Andrews on "Collecting Medieval Art in America."

Friday, February 2

Center for the Performing Arts, 8 p.m., Schwab Auditorium. Turtle Island String Quartet. For tickets, call (814) 863-0255.

Saturday, February 3

■ Film, 2 p.m., Palmer Lipson Auditorium. "Europe in the Middle Ages: The Feudal System."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Elaine Elias, pianist. For tickets, call (814) 863-0255.

Sunday, February 4

Lecture, 2 p.m., Palmer Lipson Auditorium. Michael Cothren on "The Legacy of Ornament: Searching in the Glencairn Museum."

School of Music, 3 p.m., Recital Hall. Intercollegiate Orchestra.

Monday, February 5

Catholic fellowship meeting, noon, 212 Eisenhower Chapel. Maria DiCola on "Reflective Praying of the Scriptures."

Continuing and Distance Education, noon, 106 Mitchell Bldg. Ann Taylor on "Choosing from the Range of Possibilities: Media Selection for Distance Education."

Center for Women Students, 7 p.m., HUB Assembly Room. "Sex at 7," sexual assault awareness/prevention event, performed by University Park Ensemble.

English, 7:30 p.m., Penn State Room, Nittany Lion Inn. Mary Karr will read from her best-selling memoir "The Liars Club."

School of Music, 8 p.m., Recital Hall. John Daniel, trumpet.

Wednesday, February 7

Cross Cultural Health Program, 5-7 p.m., 305 HUB. "General Body Meeting."

School of Music, 8 p.m., Eisenhower Auditorium. Penn State Philharmonic Concerto. For tickets, call (814) 863-0255.

Thursday, February 8

Black's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Clarinet Singers.

Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Aaron Rotner on "Collecting Medieval Art in America."

Friday, February 9

School of Music, 6 p.m., Old Main. Chamber Singers' Celebration of Love. For tickets, call (814) 865-0432. Also, Feb. 10.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Le Traviata New York City Opera National Company. For tickets, call (814) 863-0255. Also, Feb. 10.

Saturday, February 10

■ Film, 2 p.m., Palmer Lipson Auditorium. "Europe in the Middle Ages: Christians, Jews and Moslems in Spain."

Sunday, February 11

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Marshall Price on "Collecting Medieval Art in America."

School of Music, 2 p.m., Recital Hall. Organ Studio Recital.



Ticking the Ivores

Pianist Elaine Elias will perform at 8 p.m. Saturday, Feb. 3, in Eisenhower Auditorium on the University Park Campus. For more information or for tickets, contact the Eisenhower Auditorium Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) ARTS-TIX.

Art History, 2 p.m., Palmer Lipson Auditorium. Pamela Hemzik on "A Circle of Manuscript Collectors in Early 19th-Century Baltimore."

SEMINARS

Thursday, February 1

Physics, 3:30 p.m., 101 Osmond Lab. Stuart Kaufman on "Coevolution to the Edge of Chaos."

Friday, February 2

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Marc Abrams on "The Dynamics of Old-Growth Acid and Pine Forests in the Mid-Atlantic Region."

Saturday, February 3

Frontiers of Science, 11 a.m., 104 Classroom Building. J. Gregory Ferry on "Early Evolution of Life."

Sunday, February 4

Art History, 2 p.m., Palmer Lipson Auditorium. Michael Cothren on "The Legacy of Ornament: Searching in the Glencairn Museum."

Monday, February 5

Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Bldg. Pablo Laguna on "Black Hole Collisions: A Computational Grand Challenge."

Tuesday, February 6

Food Science, 4 p.m., 121 Buckhout. Richard Ellis on "Undergraduate Teaching in Biology."

Tuesday, February 6

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Anne Gaffney on "Direct Oxidation of Propylene Over Carbogenic Catalytic Materials."

Geosciences, 3:30 p.m., 112 Walker Bldg. Dave Egger on "Diamonds and the Redox State of the Mantle."

Physics, 3:30 p.m., 339 Dairy Lab. Joseph Milana on "The Photon's Contribution to the Super-Hard Polymer."

Food Science, 4 p.m., 209 S. Henderson. Karen Webb on "Local Food & Nutrition Policy Work in Australia."

Wednesday, February 7

Physics, 11 a.m., 339 Davey Lab. Daniel Nelson on "Linear and Nonlinear Effects in Fiber Optics Systems."

Also at 3:30 p.m., "Marking the Physical II."

Adult, Continuing & Distance Education, 11:45 a.m., 502 Keller. James H. Ryan on "Continuing and Distance Education—Current Practices and Future Challenges: A Penn State Case Study."

Gerontology Center, 12:15 p.m., 101 144H East. Jane Kuck on "Function of the Serotonergic System: Age-Related Assessment of Central 5-HT1A Receptors."

Thursday, February 8

Physics, 3:30 p.m., 101 Osmond Lab. Mildred Dresselhaus on "Recent Advances in C₆₀-Related Carbon Nanobulbs."

Computer and Science and Engineering, 4 p.m., 302 Pond Lab. Mark Moir on "Efficient Object Sharing in Shared-Memory Multiprocessors."

Food Science, 4 p.m., 201 Borland Lab. Michelle Eck on "Isolation of Osmoregulatory Mutants of *Staphylococcus aureus*."

Friday, February 9

Physics, 2:30 p.m., 55 Osmond Lab. Deva-raj Thirumalai on "Protein Folding - In-vitro and In-vivo."

Accounting, 3:30 p.m., 333 Bear BAB. Daniel Benish on "Do Detected and Undetected Earnings Managers Differ?"

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Marylee C. Taylor on "The Local Context of White Racial Attitudes."

Saturday, February 10

Entomology "Catch the Bug," 10 a.m., 101 ASI. "Where Have All the Insects Gone?"

Take a bug-watching walk to see where insects go in the winter.

Frontiers of Science, 11 a.m., 104 Classroom Bldg. Charles R. Fisher on "Alien Life Forms on Earth."

CONFERENCES

Saturday, February 3

"Affirmative Action in Higher Education: Implications of the California Decision," 9 a.m.-3:30 p.m., The Penn State Scanticon. To register or for more information, call 1(800)PSU-TODAY.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m. "Performance Today," Mon.-Fri., 9-11 a.m. "All Things Considered," Mon.-Fri., 4-7 p.m.; Sat. & Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m. "Fresh Air with Terry Gross," Mon.-Fri., 7-8 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein," Wed., 8 p.m.

"Car Talk," Fri., 8 p.m. and Sun., 6 p.m. "Living On Earth," Mon., 8 p.m. "Inside Europe," Sat., 4:30 p.m.

"The Thistle & Shamrock," Sun., 4 p.m.

EXHIBITS

HUB

Formal Art Gallery: Bill Hutson's "Image To Object," through Feb. 25.

Browsing Gallery:

Evalina Francis' fiber sculptures, through March 17.

Art Alley Panels:

Myka Leacy Crisp, commercial photography, through Feb. 18.

Art Alley Cases:

Penn State art students' ceramics, through Feb. 18.

Kern Exhibition Area

Kern Panels: Teri Karpowich photography, through Feb. 21.

Kern Cases:

Sam Chsar woodburning, through Feb. 18.

Palmer Museum

"Medieval Art in America: Patterns of Collecting 1800-1940," through March 3.

"Rapture at the Interface Between Love and Disease," contemporary photography and sound by David Topica and Bryan Shuler. Through March 10.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10.

"Recent Gifts and Acquisitions," through June 2.

Patee

Lending Services Gallery: "Reveries of Fire and Water," an exhibition of oil paintings by Kay Picard. Through Feb. 29.

Paul Robeson Cultural Center

■ "Africa and the Diaspora: Personal Collections," exhibition of African, African-American, Haitian and Brazilian art and artifacts. Through Feb. 23.

Ritenour Lobby:

Enica Cho prints, printmaking. Through Feb. 28.

Zoller Gallery

"George Zoritch: Painter of the Pennsylvania Landscape," through Feb. 9.

■ Reflects an international perspective

Penn Staters

The following extension staff members from the College of Agricultural Sciences were honored by the National Association of Extension Home Economists: **Brenda Bernatowicz**, Erie County extension agent, received the Distinguished Service Award; **Winifred McGee**, extension agent in Lebanon County, received the Communications Award; **Gertrude Dougherty**, Chester County extension director, and **Fay Strickler**, senior extension agent in Berks County, received the Continued Excellence Award.

William L. Boyd, Distinguished Professor of education, presented several papers at international conferences, including "The 'Loyal Opposition' and the Future of British and American School Reform" at the European Conference on Educational Research in Bath, England; and "Political Trends in British and American School Reform" at the British Educational Management and Administration Society conference in Oxford, England. He also gave an invited lecture, "Radical Reform and Reinvention: Trends in British and American School Reform," at the Roehampton Institute in London and at the University of Strathclyde, Glasgow, Scotland.

Donald A. Bryant, Ernest C. Pollard professor of biotechnology and professor of biochemistry and molecular biology, has been elected to fellowship in the American Academy of Microbiology. The academy awards the honor to distinguished microbiologists whose research has been outstanding for its originality, creativity and excellence. Dr. Bryant's research concerns the structure and function of the photosynthetic apparatuses of cyanobacteria and green sulfur bacteria.

Alan Cameron, professor of entomology, presented a paper co-authored by **Larry McCormick**, associate professor of forest resources and two former research associates in entomology, on "Pear Thrips in the Northeastern United States—Its Impact on the Sugar Maple Resource," at the 20th World Congress of the International Union of Forestry Research Organizations in Tampere, Finland.

Nancy M. Cline, dean of the University Libraries, has taken office as president of the Association of Research Libraries (ARL) Board of Directors. Dean Cline has been active in ARL, serving as chair of the Task Force on Telecommunications, as a member of the Task Force on Government Information, and as a representative to the Steering Committee of the Coalition for Networked Information. Currently, she is involved with the Information Policy

Committee and the Working Group on Copyright Issues.

Juan Fernández-Jiménez, professor of Spanish at Penn State Erie, The Behrend College, gave the keynote address, "Literature and the Role of Literary Competition," at the Ninth Manuel Alvarez Tenderso Literary Competition in Arjona, Spain.

Ann Fisher, senior research associate in the Department of Agricultural Economics and Rural Sociology, has been honored as a Fellow of the Society for Risk Analysis in recognition of outstanding contributions to the profession. She is one of less than 30 people internationally who have received this highest distinction from the society.

Charles Fisher, associate professor of biology, recently presented a keynote talk, "Ecophysiology of Symbiotic Primary Production in the Deep Sea," at the Vienna Deep-Sea Symposium in Vienna, Austria, marking the 100th anniversary of the first Austro-Hungarian deep-sea expedition to the Red Sea. He also presented an invited talk titled "Physiological Ecology of Chemotrophic Symbioses" during the 4th International Congress of Comparative Physiology and Biochemistry in Birmingham, United Kingdom.

Ken Fisher, associate professor of engineering at Penn State Erie, The Behrend College, presented two papers, "Design of a Sealed Surgical Lighting Fixture" and "Establishment of a Design Center Which Promotes MET Faculty Involvement in Applied Research," at the International Mechanical Engineering Congress and Exposition.

Richard Fox, professor of psychology at Penn State Harrisburg, has been named editor of the journal *Behavioral Interventions* for a five-year term. The journal is published by John Wiley and Sons.

Lonnie Golden, assistant professor of economics at the Penn State Delaware County Campus, presented a paper titled "Average Work Hours and its Relationship to Employment in U.S. Manufacturing Industries" at the International Symposium on Working Time in Blankenberg, Belgium.

Barbara Grabowski, associate professor of education, recently served as an American Society for Engineering Education Summer Faculty Fellow, supported by the National Aeronautics and Space Administration (NASA). While an ASEE Fellow, she conducted research and studied in short courses, workshops and lectures.

Kay Johnson, lecturer in economics at Penn State Erie, The Behrend College, was selected by the Certified Financial Planner Board of Standards to serve on its case review committee. This select committee reviews, edits and approves complex cases for the national CFP certification exam.

James F. Kasting, professor of geoscience in the College of Earth and Mineral Sciences, and **Kenneth M. Weiss**, Distinguished Professor of anthropology and genetics in the College of the Liberal Arts, were named Fellows of the American Association for the Advancement of Science. Drs. Kasting and Weiss were among 273 AAAS members awarded this distinction this year for their efforts toward advancing science or fostering applications deemed scientifically or socially distinguished.

W. Larry Kenney, professor of applied physiology, presented the opening address at a conference sponsored by the British Olympic Committee in Nottingham, England. The conference was titled "Dehydration, Rehydration and Exercise in the Heat" and covered topics relating to the 1996 Atlanta Olympic Games.

Iam-Choon Khoo, professor of electrical engineering, presented the plenary lecture "Holographic Grating Formation in Fullerene-doped Liquid Crystals" at the 6th International Topical Meeting on Optics of Liquid Crystals at Le Touquet, France. He also gave an invited paper, "Liquid Crystal Fibers and Fiber Arrays for All-optical Switching and Limiting Application," at the Micro-Optics Conference, Hiroshima, Japan.

Sridhar Komarneni, professor of clay mineralogy in the Department of Agronomy and the Materials Research Laboratory, presented an invited paper, "Nanocomposite Processing of Electroceramics," at the First Asian Meeting on Ferroelectrics in Xi'an, China. He presented two invited lectures in Beijing: "Cesium and Strontium Immobilization Using Novel Clays" at the Beijing Institute of Nuclear Engineering, and "Microwave-hydrothermal Processing of Metal and Ceramic Powders" at the Institute of Chemical Metallurgy, The Chinese Academy of Sciences.

John M. Lilley, provost and dean of Penn State Erie, The Behrend College, has been elected to the board of directors of the American Association of State Colleges and Universities for a three-year term. AASCU is an association of more than 400 presidents and chancellors from public colleges, universities and higher education systems across the United States.

25-year Awards



Observing 25 years of service at the University are, from left: David Dimnick, manager of human resources, Health and Human Development; Dennis R. Lott, director, Department of Continuing Education in the College of Medicine, The Hershey Medical Center; Doug McCullough, assistant professor of exercise and sports science and assistant professor of leisure studies at the Penn State Mont Alto Campus; Sara Parks, associate dean for Commonwealth Educational System programs and international programs and associate professor of dietetics, College of Health and Human Development; and Paul J. Perrone, instructor of English, and Marlene P. Soutsky, associate professor of German, both at the Penn State Worthington Scranton Campus.

Penn Staters

Robert Lima, professor of Spanish and comparative literature and a Fellow of the Institute for the Arts and Humanistic Studies, gave an invited presentation titled "Valle-Inclán entre dos siglos: Del Hombre Viejo al Hombre Nuevo" at the international congress Valle-Inclán y el Fin de Siglo held in Santiago de Compostela, Spain. The event celebrated the centennial of the author's first book, published in 1895.

He was also honored at a televised event by the Consorcio de Santiago de Compostela in Spain for the contributions he has made through his writings on Ramón del Valle-Inclán.

Pier Marton, associate professor of communication at Penn State Erie, The Behrend College, produced a videotape installation in "Witness and Legacy," an exhibit displayed at the Columbus Museum of Art in Columbus, Ohio.

E. Willard Miller, professor emeritus of geography, was presented the Distinguished Mentor Award by the National Council for Geographic Education for his contributions to geographic education at the graduate level.

Verónica Montecinos, associate professor of sociology at the Penn State McKeesport Campus, presented a paper on "Economists as Party Leaders in Chile" at the Technocracy and the Politics of Expertise in Latin America Conference in Amsterdam, Holland.

R. Nagarajan, associate professor of chemical engineering, was an invited lecturer at the NATO Advanced Study Institute on Solvents and Self-Organization of Polymers held in Antalya, Turkey. He presented two lectures: "Solubilization of Hydrophobic Substances in Block Copolymer Micelles" and "Solubilization Induced Shape Transitions in Block Copolymer Solutions." In addition, he also gave an invited seminar titled "Sorption and Transport in Polymers" in Milan, Italy; an invited seminar titled "Self-Assembly of Surfactants and Block Copolymers" at Ausimont Central Research Laboratory, Bollate, Italy; and an invited lecture, "Copolymer Micelles in Aqueous Solution," at the Université de Haute Alsace, Mulhouse, France.

Adrian Oanceanu, professor of mathematics, has received the 1995 American Romanian Academy of Arts and Sciences Award in appreciation of his distinguished contributions to the advancement of science as well as for the enhancement of science in his native land.

Ganapati P. Patil, distinguished professor of mathematical statistics and director of the Center for Statistical Ecology and Environmental Statistics, was an invited United States delegate to the Binational

Workshop on Baseline Indicators for the United States-Mexico Border.

Barbara Powers, lecturer in mathematics at Penn State Erie, The Behrend College, presented "Discovering the Midpoint and Trapezoidal Rules for Approximating the Area of a Plane Region" at the International Conference on Technology in College Mathematics.

Jorge Pullin, assistant professor of physics and a researcher in the Center for Gravitational Physics and Geometry, presented a plenary talk, "Quantum Gravity, What, Why and When?" and a semi-plenary talk, "Quantum Gravity on the Lattice and a Rigorous Solution of the Quantum Einstein Equations," at the 80th Argentina Physical Association meeting in Bariloche, Argentina.

Gary Rogers, associate professor of dairy and animal science, has received the 1995 Young Scientist Award from the American Society of Animal Science and the American Dairy Science Association. Dr. Rogers also lectured on "Clinical Mastitis and Sire-Predicted Transmitting Abilities for Somatic Cell Score" at the 46th annual meeting of the European Association for Animal Production, held in Prague, Czech Republic.

Della M. Roy, professor emerita of materials science, recently participated in the Forum on Future Directions in Transportation R&D. The purpose of the forum was to help establish a longer-term framework for developing a national transportation R&D agenda. Dr. Roy also has been appointed a member of the external review committee for Los Alamos National Laboratory's Nuclear Materials Technology Division.

Rustum Roy, Evan Pugh Professor of the solid state and professor of science, technology and society, oversaw and organized four sessions for the "Future of Science and Technology" section of the State of the World Forum organized by the Gorbachev Foundation.

David Russell, associate professor of computer engineering at Penn State Great Valley, was recently appointed visiting professor at the University of Wales.

William R. Schmalstieg, Edwin Erie Sparks Professor of Slavic languages, gave an invited lecture on Lithuanian dictionaries after independence at a conference titled "Balistis: Aufgaben und Methoden" held at the Katholische Universität Eichstätt, Germany. He also gave an invited lecture titled "Ergativity and Genitive Constructions" for the linguistics and literature faculty of the university.

Penn State's 4-H textile science series and 4-H food presentation manual, developed by **Jan Scholl**, associate professor of agricultural and extension education, were selected to be part of the national 4-H curriculum.

Gerhard E. Strasser, associate professor of German and comparative literature, presented invited papers at "Athanasius Kircher's Linguistic Theories" at a symposium on "The Philosophical and Theological Aspects in the Search for an Original Language in the Early Modern Period" at Wolfenbüttel, Germany. He also presented "Late 17th-Century 'Mnemonic Practices'" at a symposium titled "ARS MEMORATIVA II: Generic Limitations, Functions and Limits of Memory Techniques from the 14th to the 17th Centuries" at the University of Vienna, Austria.

Spiro Stefanou, professor of rural sociology, has been appointed a visiting professor of economics at the Institute for Advanced Studies, Vienna, Austria for another year.

Bruce Trinkle, associate professor of music, has won first prize in the Chattanooga Children's Choral competition for his series of choral songs titled "Mother Nature." "Music for Children," the best known competition in the United States for music for young voices, honors the winning piece each year with a cash award and a performance. "Mother Nature" will be sung by the Chattanooga Children's Choral in March.

Rod Troester, associate professor of speech communication at Penn State Erie, The Behrend College, has been elected as chairman of the Peace and Conflict Commission of the National Speech Communication Association. **Colleen E. Kelley**, assistant professor of speech communication at Erie-Bethred, has been named co-chair of that commission and planner for the 1996 national meeting of the association.

Gary S. Webster, associate professor of anthropology at the Penn State Mont Alto Campus, delivered an invited lecture titled "Social Archaeology and the Irrational" to the School of Humanistic Studies at the University of Umea in Sweden.

Pinguan Werner, assistant professor of engineering at the Penn State DuBois Campus, presented a paper titled "Frequency Independent Fractal Antennas" at the 1995 International Conference on Radio Science (ICRS) in Beijing, China.

Ann Wolf, affiliate assistant professor of agronomy and director of the Agricultural Analytical Sciences Laboratory, presented a paper on quality in soil testing at the Fourth International Soil and Plant Analysis Symposium in Wageningen, The Netherlands.

25-year Awards



Observing 25 years of service at the University are, from left, John D. Baldon, associate professor of mathematics; Richard N. Barsinger, professor of mathematics; Harry F. Felton, assistant professor of exercise and sport science; Richard Fitzsimmons, associate librarian; Gail C. Keating, assistant professor of English and women's studies; and Ralph Mastriani, admissions officer and registrar, all at the Penn State Worthington Scranton Campus.

EMPLOYEE
BENEFITS

A regular column provided by
the Office of Human Resources

Plan supplement

The University added a supplement to its Vision Plan effective Jan. 1 to provide faculty and staff members opportunity to stretch their benefits dollars by accessing the National Vision Administrator's (NVA) provider network for eye exams, lenses and frames.

The maximum benefit payable under the Vision Plan remains unchanged. (See Nov. 30 *Intercom* article.) There seems to be some confusion, however, about the need to obtain a voucher from NVA before seeking services. A voucher is necessary only when an NVA participating provider is used, and it's not necessary to submit a claim form for reimbursement for the service provided. However, if someone chooses not to use an NVA participating provider, it is necessary to submit a claim form to NVA, since the University has contracted with NVA.

It's easy to remember: NVA participating provider — get a voucher in advance by calling (800) 672-7723 and present it at time of service.

Nonparticipating provider — no voucher needed. File a claim form with NVA after the service is provided. Claim forms are available from the Employee Benefits Division, Rider Building, University Park.

Direct questions to the Employee Benefits Division, (814) 865-1473 or E-mail bene@psu.edu.

SERS update

The annual statement of account that each SERS participant receives will now be mailed to the participant's home address. Previously, these statements were mailed to the campus address. SERS participants who recently moved should contact the SERS field office to verify their current addresses.

Promotions

Staff

Jenny E. King, administrative assistant II in The Office of the President.
Ken T. Korbich, employment/classification specialist II in Office of Human Resources.
Michael J. Leach, operations coordinator II in Computer and Information Systems, Telecommunications.
Dwight D. Lingenfelter, technical/administrative specialist in College of Agricultural Sciences.

Obituaries

PENNTAP specialist dies at age 64

Thomas F. Barone, senior technical specialist with the Pennsylvania Technical Assistance Program (PENNTAP) since Feb. 12, 1979, died Jan. 4 at the age of 64.

A 1957 graduate of Penn State with a bachelor of science degree in electrical engineering, he was a 1965 graduate of Penn State with a master's degree in biophysics and a 1966 graduate of Penn State with a doctor of philosophy in biophysics. He served as a seaman in the U.S. Navy from 1949 to 1953, during the Korean War.

He was a member and past officer of the Institute of Electrical and Electronic Engineers and a member of the National Honor Society Sigma Xi.

Professor emeritus of agricultural economics died Jan. 16 at age 73

Hays B. Gamble, professor emeritus of agricultural economics and former associate director of the Environmental Resources Research Institute, died Jan. 16 at the age of 73.

Dr. Gamble, whose research dealt primarily with rural land use, environmental quality measures and effects on land values, and land use developments such as highways, nuclear power plants and sanitary landfills, joined Penn State in 1965. He was in charge of the Land Resources Center and for several years also served as chairman of the graduate program in regional planning. In 1983 he was appointed half-time acting associate dean of the Graduate School and in 1985, he retired from the University.

He served as president of the Northeast Regional Resource Economics Association and for a time was chairman of the Socio-Economic Effects Committee of the Transportation Research Board in Washington, D.C., part of the National Research Council of the National Academy of Science.

He served in World War II as a pilot with the 315th Bomb Wing, based in Guam in the Pacific Theater, where he flew B-29 missions over Japan.

Dr. Gamble earned his bachelor of science degree in 1947 from Penn State. In 1962, he received his master's degree in forestry and in 1965 was granted a doctorate in agricultural economics, both from Penn State.

Professor emeritus of animal husbandry died Jan. 9 at age 72

Glenn R. Kean, professor emeritus of animal husbandry, died Jan. 9. He was 72.

Hired at Penn State as an instructor in animal husbandry, he was promoted to professor in 1974 and retired in 1980. He coordinated research and teaching livestock farms, and was acting head of his department from 1955-59. He served on the University Faculty Senate for four years, was a former county extension agent and advised various college organizations during his tenure. He received his bachelor's degree in animal husbandry in 1942 and his master's degree in animal husbandry in 1948, both from Penn State.

He was a member of the 82nd Army Airborne Glider Infantry during World War II, where he was a captain, and received the Purple Heart during the invasion of Holland.

Longtime meteorology faculty member helped to mold the department

Hans H. Neuberger, who served 33 years on the faculty of the Department of Meteorology — a unit he helped mold

during its formative years — died Jan. 17 at the age of 85.

Born on Feb. 17, 1910, in Mannheim, Germany, Dr. Neuberger studied mathematics, meteorology and seismology at the universities of Heidelberg and Hamburg, respectively. Immediately following the completion of his doctoral studies in 1936, he escaped the holocaust by emigrating to the United States as a cabin boy on a trans-Atlantic ocean liner. Penniless on arrival, he worked as a bellhop in New York until the founder of the Department of Meteorology at Penn State, **Helmut Landsberg**, an earlier German immigrant, offered him an appointment as an instructor. Dr. Neuberger went on to serve as department head from 1941 to 1961. He retired from Penn State in 1970, but went to the University of Florida where he taught meteorology.

Professor Neuberger was widely known for his interests and scientific accomplishments in physical meteorology; his early studies of atmospheric ultraviolet radiation and its interaction with natural and pollutant particles; his interpretation of atmospheric sound propagation; his analysis of a variety of atmospheric electrical phenomena; and the role of atmospheric phenomena in human health and behavior.

He is survived by his wife, **Maria Elizabeth**; a daughter, **Eve Voigt**; a son, **Danial Neuberger**; three grandchildren; one great grandchild; and a sister.

Former Allegheny County Cooperative Extension Service director was 73

Phillip L. Sellers, former director of the Cooperative Extension Service office in Allegheny County, died Jan. 10 at the age of 73.

Mr. Sellers began his lifelong affiliation with Penn State when he began studying agronomy here, earning a bachelor of science degree in 1943, he served in the Navy Seabees. In 1946, he began working as an assistant county extension agent in Butler County and was promoted to associate agent and then named Allegheny County extension agent in 1955. He also supervised agriculture-related activities and exhibits at the Allegheny County Fair.

Other deaths

Kathryn W. Breen, former secretary in the Office of Physical Plant and the Office of Property and Inventory before retiring in 1971, died Jan. 9 at the age of 89.

Lloyd L. Dills, automotive technician, Office of Physical Plant, from Sept. 21, 1970, until his retirement July 1, 1992; died Dec. 28 at the age of 60.

Sara M. Kosky, lab attendant in the College of Agricultural Sciences, died Jan. 10 at the age of 69. She was employed at the University from Oct. 7, 1968, until her retirement Feb. 1, 1986.

Bertha Seymour, hostess for the Office of the Dean of Student Affairs, from Sept. 1, 1961, until her retirement Sept. 1, 1971, died Dec. 27 at the age of 87.

Frances C. Schirm, administrative aide, University Relations, from May 1, 1962, until her retirement June 30, 1987; died Jan. 10 at the age of 60.

Joseph J. Wyda, maintenance mechanic A at the Penn State Wilkes-Barre Campus, from Sept. 4, 1973, until his retirement Jan. 1, 1994, died Dec. 30. He was 67.

Janice D. Markle, library assistant I in University Libraries.

Patricia A. Martin, staff assistant VI in College of Health and Human Development.

Steven M. Maruszewski, manager, Design Services, in Office of Physical Plant.

Ronald A. Matson, senior communications analyst in College of Agricultural Sciences.

Diane G. Mills, staff assistant VI in The Office of the President.

David L. Musser, art editor in Continuing and Distance Education.

Debra L. Neely, assistant director, Student Affairs, at Penn State Mont Alto Campus.

Jason S. Oakman, publications editor/designer in Housing and Food Services.

Daniel T. O'Donnell, data adminis-

tration coordinator at The Hershey Medical Center.

Sara C. Olson, staff assistant V in Office of Human Resources.

Wayne T. Packer, assistant manager, Housing and Food Services Commonwealth Campuses, in Housing and Food Services.

Karen L. Pillot, staff assistant VI at Penn State Great Valley Campus.

Wendi M. Rossman, staff assistant IV in Office of Human Resources.

Schools need to help students interpret visual media

Schools must recognize the need to teach students how to read the visual message as well as the printed word. "The electronic revolution since World War II can be justly compared to the Gutenberg revolution of 1455," Ladislaus M. Semali, assistant professor of education, said.

"While still influential, print media— from Shakespeare to *Time* magazine— is no longer the No. 1 shaper of culture in American society. In this new age of information, visual literacy, the ability to interpret television, films, videos, photographs, even billboard advertising is as important as traditional print literacy, and public schools need to accept this reality," Dr. Semali said.

According to Dr. Semali, one of the most pressing mandates in public education today is to restructure curriculums so that students are taught how to interpret all forms of visual media and detect any subtext or subliminal agendas.

Dr. Semali is author of a forthcoming book, *Media Literacy In Multi-Media America: Integrating Media Across The Curriculum*.

"Conservative educators and commentators apparently feel threatened by the accelerating pace of technological change," Dr. Semali said.

Thus, they identify television, videos, even photography, as a kind of low culture as opposed to high culture represented by books, newspapers and other traditional print media.



Ladislaus M. Semali, assistant professor of education, considers restructuring curriculum to teach students how to interpret all forms of visual media a top priority in public education today.

Photo: Greg Grieco

"They seem to believe that students today are being shortchanged because they are not learning to decode print," Dr. Semali said. "However,

their fears do not take into account that most people today still consume as much print media as they do electronic media. Print literacy and electronic literacy are not mutually exclusive but in fact are mutually reinforcing."

Dr. Semali recommends that colleges of education train future teachers to recognize and evaluate ideas and information whether conveyed through print or picture; critically analyze and evaluate media messages for simplification, distortion, bias and propaganda; and teach these skills to elementary and secondary school students.

At the same time, these courses can help teachers be better instructors through the use of imagery and visual techniques.

"For history and social studies teachers, visual media literacy offers a dynamic way to explore the presentation of history and government systems in everything from picture books to advertising, TV and film," Dr. Semali said.

By sharpening their visual literacy skills, students and teachers can be taught to pick up buried messages in film, video and photographs, and thus think more critically about history and politics.

"Through a firm grasp of visual literacy, teachers can not only make learning more fun but can also teach their students to overcome fear of the unknown and fear of the unlike," Dr. Semali said.

— Paul Blaum

Stay SMART strategy helps at-risk teen-agers avoid sex and drugs

A voluntary, abstinence-based prevention program, called Stay SMART, offered by Boys and Girls Clubs of America (BGCA), successfully helps at-risk youths 13 to 15 years old resist social pressure to smoke, drink, use marijuana and to engage in sexual activity, researchers have found.

Tena St. Pierre and D. Lynne Kaltefleiter, both research associates in the Institute for Policy Research and Evaluation, said the strategies the clubs use to achieve success could also be employed in other nonschool settings where program participation is voluntary.

Dr. St. Pierre, who is also an associate professor of agricultural and extension education in the College of Agricultural Sciences, said, "We are aware of no other program addressing the prevention or postponement of teen sexual activity that also seeks to prevent adolescent drug use. Such a multifocus program appears to be a reasonable strategy because adolescents engaging in one of these problem behaviors are likely to engage in the others."

Stay SMART is an abstinence-only program containing no contraceptive

STRATEGIES FOR A SUCCESSFUL PROGRAM

The researchers identified five strategies they think are important for a prevention program to be successful in a youth-serving organization. These include:

- 1) Employing a team approach and making sure that all staff "buy in" to the program goals;
- 2) Choosing program leaders that teens will accept;

- 3) Getting teens to feel they are part of a special group so that positive peer pressure from the group will foster the drug and sex avoidance goals;

- 4) Involving older teens who are successful program graduates to encourage younger teens; and
- 5) Developing community support.

information or services. The program employs a postponement approach to sexual activity but also conveys the message to teens that if they have been sexually active, they can still decide to postpone further sexual activity.

The 12-session Stay SMART program is a component of SMART Moves, BGCA's National Prevention Program. Many of the sessions address both sexual activity and drug prevention in role-play situations in which participants practice resisting pressures to have sex or to smoke, drink or use other drugs. In other sessions, youths analyze advertisements to help them see how underlying

pressures in the media promote sexual activity and drug use.

"Once the teen is able to say 'no' to a beer, for example, that skill is transferable to other situations and behaviors," Dr. St. Pierre said.

The Penn State researchers evaluated the outcomes of the program by giving the teens questionnaires to complete before they started the program and three more times over the 27 months of the research project. A total of 161 mostly male 13-year-olds participated in the project at 14 Boys and Girls Clubs across the country.

The researchers found that, relative to the control group, the Stay SMART teens who were nonvirgins

before the program reported less sexual behavior and less favorable attitudes toward sexual activity. In addition, Stay SMART participants reported less alcohol, cigarette- and marijuana-related behavior and more knowledge of drug use consequences.

Dr. St. Pierre and Ms. Kaltefleiter designed a two-year booster program, called SMART Leaders, to reinforce the skills learned in the Stay SMART program and to encourage teens who completed the program to help their peers resist pressures to engage in sex or do drugs. While the study showed these extra sessions were not effective in prolonging the sex avoidance effect of the program, the booster program did help participants form more negative attitudes toward using alcohol and marijuana.

The researchers discussed prevention programming in the voluntary setting in *Beyond the Schools: Strategies for Implementing Successful Drug Prevention Programs in Community Youth-Serving Organizations*, published in the *Journal of Drug Education*. Their results on sexual activity prevention were published in the *Journal Family Relations*.

— Barbara Hale

ATHLETICS

A regular column provided by Intercollegiate Athletics

Directors Cup

For the third consecutive year, Penn State is at or near the top in the Sears' Directors Cup survey through fall sports. The past two years, the Nittany and Lady Lions have led the Directors Cup standings through the fall and this year they trail only Stanford, which won the 1994-95 Directors Cup. The all-sports competition is sponsored by the National Association of Collegiate Directors of Athletics and USA Today. Penn State registered 249 poll points with a fall record of 81-32-1 in seven sports.

All-star games

Nine Penn State football players participated in postseason all-star games during the month of January. In the Senior Bowl, the Nittany Lions were represented by a record six participants—wide receiver Bobby Engram, tailback Mike Archie, tackle Keith Conlin, tackle Andre Johnson, guard Marco Rivera and fullback Jon Witman. The Lion contingent in Hawaii's Hula Bowl included linebacker Terry Killens, fullback Brian Milne and wide receiver Freddie Scott, who recently opted to forego his final year of eligibility to enter the NFL Draft.

Athletic event tickets

Tickets for all athletic events, including those staged in Recreation Building, may be ordered from the Jordan Center box office. The local phone number for ticket orders is 865-5555. Fans may call toll-free from out of town at (800) 863-3336.

For the Record

■ The Jan. 18 *Intercom* story on page 10 about the upcoming Faculty/Staff Achievement Awards should have referenced page 2 of the Dec. 7 issue of *Intercom* for more information about the awards process.

■ The Faculty/Staff Alert about emergency information on page 12 of the Jan. 25 issue of *Intercom* gave an incorrect World Wide Web address. The correct address is <http://www.pubinfo.oud.psu.edu>



Fancy footwork

President Graham B. Spanier shows some fancy moves on the basketball court during halftime of the Nittany Lions' game against Purdue. Dr. Spanier was on hand to help promote the Sy Barash Three-Point attack against cancer. Donors have pledged to give to the fund each time a player on the men's or women's basketball team makes a 3-point shot. The American Cancer Society expects to raise roughly \$13,000 by the end of the two teams' seasons.

Photo: Greg Grieco

Penn College names contractors for project

Pennsylvania College of Technology has named the construction contractors who will provide general construction, electrical, plumbing and heating, ventilation and air conditioning for the college's 13-building student housing project — The Village.

Lobar Inc. of Dillsburg was the low bidder for the general construction contract with a bid of \$5.45 million.

Other contracts awarded include: electrical to Howard Organization Inc. of Bloomsburg (\$747,000); plumbing to Yellow Rock Inc., Altoona (\$394,300); and

HVAC to McClure Company of State College (\$509,200).

With construction costs totaling just over \$7 million, the total project cost, including related expenses, is estimated at \$8.5 million.

Construction will get under way this spring on the student housing complex. Penn College expects to make The Village available to students for the spring 1997 semester. Situated just east of the Academic Center, the complex will house 320 students.

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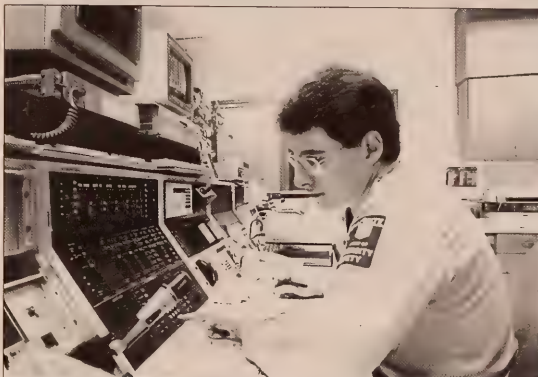


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On duty

Matt Fultz, a telecommunicator in the Department of University Safety at University Park, works at the Emergency Communications Center. The center, kept busy lately by emergencies caused by the adverse weather, handles all police, fire, ambulance and alarm monitoring for the University, in addition to serving as the alternate 911 center for Centre County.

Photo: Greg Grieco

New protocol for aiding assault victims

The University has released a new Sexual Assault Protocol to provide information and support to faculty and staff members involved with assisting student victims.

"The University has had a variety of different services and programs in effect to assist victims of sexual assault for many years," Dr. Margaret Spear, director of University Health Services, said.

"But, often assault victims feel more comfortable turning to a resident assistant, adviser, supervisor or close teacher. This can place a burden on these initial contact persons to provide important information to the victim without having knowledge of available resources themselves."

In response to this need, a University Sexual Assault Committee, has assumed University-wide responsibility for establishing and publicizing avenues of assistance available to assault victims.

The committee, chaired by Dr. Spear, is made up of representatives from Police Services, Residence Life, Center for Women Studies and University Health Services. A representative from the Commonwealth Campuses also has been involved in the process.

Joanna Moyer, nurse practitioner and clinical director of Women's Health at University Health Services, said the new protocol issued by the Sexu-

See "Assistance" on page 5

Faculty Senate to explore salary plan

After about an hour of debate and a flurry of proposed amendments, the University Faculty Senate last week voted to develop a minimum salary plan "patterned after" that of the State System of Higher Education (SSHE) and to recommend that the University administration implement the plan.

The final motion, approved on a voice vote, says that an existing special committee on faculty compensation should be "charged with the responsibility of developing a specific recommendation before the end of the calendar year." An amendment offered during the debate — to postpone the vote on the minimum salary plan proposal until after the release of the special committee's report — was defeated in an 82-65 roll call vote.

Dennis Roberts, professor of educational psychology in the College of Education, who drafted the original motion, said the intent was to bring fairness to the salary system and emphasized it was not an attempt to move the faculty toward unionization.

See "Salaries" on page 3

Head of Kellogg Foundation to give Oswald Lecture

William C. Richardson, president of the W.K. Kellogg Foundation, will be the speaker for the 1996 John W. Oswald Lecture in Higher Education at 5:30 p.m. Monday, March 25, in the Palmer Museum of Art Lipson Auditorium on the University Park Campus.

A reception will precede the lecture at 4:30 p.m. in the museum's Christoffers Lobby. Both the lecture and reception are open to the public.

"We are delighted that Bill will return to Penn State to give this lecture," President Graham B. Spanier said. "As former provost and executive vice president at Penn State and former president of Johns Hopkins University, he brings a national perspective on issues in higher education. His lecture topic, Next Steps in Higher Education, should be of interest to faculty, staff and students alike."

As president and chief executive officer of the W.K. Kellogg Foundation of Battle Creek, Mich., Dr.

See "Oswald" on page 5

Inside



Changing the world

To see just 50 ways that Penn Staters have altered life as you know it, turn to the center section, pages 6 and 7. Readers with suggestions about discoveries we may have missed, should contact Mike Bezilla at mxb13@psu.edu.



New to the Intercom

Technology Writer Doug Stanfield takes on the sometimes formidable world of cyberspace in his new column, "Web Browser" on page 10. In the coming months, Doug will introduce readers to interesting Web sites, software, manuals and more.

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Diversity

Events mark CWS 10th anniversary

A community Clothesline Project is one of the highlights of the Center for Women Students' 10th anniversary events open to the public this spring.

Developed by a group of women in Massachusetts, the Clothesline Project is a display of T-shirts symbolizing acts of violence against women as designed by victims of violence, their families and friends.

A community version of the project developed by University faculty, students, staff and other residents of the area will be on display in the HUB Fishbowl in April as part of a three-day focus on bearing witness to violence against women.

To participate in the display by creating T-shirts this month and next, call the Center for Women Students at (814) 863-2027.

In addition to the project, the CWS is sponsoring or co-sponsoring a number of programs in February, including:

- "African-American Women in Higher Education: Challenges and Opportunities," presented by Deborah Atwater, associate professor of speech communications and African/African-American Studies. The presentation, which will explore many issues African-American women face in higher education today, will be held from noon to 1 p.m. Wednesday, Feb. 14, in the CWS Resource Room, 120 Boucke Building.

- Sonia Sanchez, Mott Professor of English at Temple University, will give a lecture on Malcolm X. The event is sponsored by the Center for Ethics and Religious Affairs and co-sponsored by CWS and will be presented in the Paul Robeson Cultural Center at 7:30 p.m. Thursday, Feb. 22.

Faculty/Staff Alerts

Enlightening Lunch — Healthy Relationships

Join in this brown-bag discussion, excerpted from the popular *Health Matters* series, and explore ways to improve well-being through building and maintaining close personal relationships. Meets Thursday, Feb. 15, from noon-1 p.m. in 110 Henderson (The Living Center); Cost: none. To register, contact Jan Hawbaker at (814) 865-3085 or JQH5@psu.edu.

Upcoming HRDC courses

Several courses are being offered by the Human Resource Development Center. To see a description of each course, log in to the *Intercom* Web site from the home page of the Office of University Relations at URL <http://univpubinfo.oud.psu.edu>. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog.

Assessment of resources

In an effort to gain an understanding of the prevention efforts in place at Penn State, the Council for the Prevention of Alcohol, Tobacco and Other Drug Abuse is asking for help in identifying any alcohol, tobacco or other drug research efforts, programming, projects and contact people at the University. The information will be used to develop a consolidated list of resources and information. To request an assessment form, please contact Ann Hollender at (814) 863-0461 or by E-mail at ach108@psu.edu.

Affirmative action

For individuals with disabilities

The Pennsylvania State University is a government contractor subject to Section 503 of the Rehabilitation Act of 1973, which requires government contractors to take affirmative action to employ and advance in employment qualified individuals with disabilities.

If you have a physical or mental impairment, a record of having had such an impairment or are regarded as having an impairment that substantially limits your ability to secure, retain or advance in employment, the Affirmative Action Office would like to include you under the affirmative action program.

It will assist the office in proper placement and appropriate accommodations if you tell us about (a) any special methods, skills or procedures that qualify you for jobs you might not otherwise be able to do because of your impairment so that you may be considered for any position of that kind and (b) possible accommodation which could be made that would enable you to perform the job properly and safely.

The Affirmative Action Office also will aid in identifying individuals requiring assistance during the emergency evacuation of all buildings of the University on the

University Park Campus and Commonwealth Campuses. Compliance shall be on an individual, voluntary basis.

Submission of this information is voluntary and refusal to provide it will not subject you to discharge or disciplinary treatment. Information obtained concerning individuals will be kept confidential, except that (1) supervisors and managers may be informed regarding restriction on the work duties of handicapped individuals and regarding necessary accommodations; (2) first aid and safety personnel may be informed if the condition requires emergency treatment; and (3) government officials investigating compliance with the act will be informed.

The Affirmative Action Office is responsible for the coordination of compliance with the requirements of Section 503. If you have a disability and would like to be considered under the affirmative action program, please contact the Affirmative Action Office at (814) 863-0471 V/TDD.

For Veterans/Disabled Veterans

The University is a government contractor subject to Section 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, as amended. This regulation requires government contractors to take affirmative action to employ and advance in employment qualified disabled veterans and veterans of the Vietnam era.

A "disabled veteran" is a person entitled to disability compensation under laws administered by the Veterans Administration, for disability rated at 30 percent or more, or a person whose discharge or release from active duty was for a disability incurred or aggravated in the line of duty.

A veteran of the Vietnam era is defined as someone who served on active duty for at least 180 days during the Vietnam crisis (between Aug. 5, 1964, and May 7, 1975), and qualified for coverage during the first four years following discharge from the service.

If you are a disabled veteran or Vietnam veteran covered by these definitions and would like to be considered under the affirmative action program, please contact the Affirmative Action Office (814-863-0471).

The information requested is voluntary and will not be used to adversely affect the terms and conditions of your employment. It will be kept confidential, except that (1) supervisors and managers may be informed regarding restrictions on work duties and necessary accommodations and (2) first aid and safety personnel may be informed if the condition requires emergency treatment.

Free program for children

The College of Health and Human Development will offer a free program in basic movement skills and games for children ages 5 through 8, beginning Feb. 20.

The program will be held in Room 126 White Building from 3:45-4:25 p.m. Tuesdays, through April 2. Registration is scheduled for 3:35 p.m. Feb. 20, in Room 126 White Building.

25-year Awards



Observing 25 years of service at the University are, from left, James A. Weiss, assistant professor of chemistry at the Penn State Worthington Scranton Campus; Rhoda Williams, staff assistant in the School of Hotel, Restaurant and Recreation Management, College of Health and Human Development; and Ronald W. Jackson, supervisor, Criminal Investigations; Claveria D. Johnson Jr., Police Service officer; Gilbert E. McMurtrie, University key controller; and Donald R. Moore, manager, special events and student auxiliary, all at the University in the Department of Safety, Police Services Division.

Assistance

continued from page 1

al Assault Committee clarifies reporting concerns, noting that clinical, emotional, legal and police issues require that a variety of resources be readily available.

"In addition," she said, "the protocol is comprehensive enough to be easily adapted to all Penn State locations, where, because of the smaller campus environment, concerns related to clinical services, financial resources and confidentiality have presented special challenges."

National statistics estimate that one in six women will be victims of rape or attempted rape during their college years, according to Patricia Johnstone, assistant director of the Center for Women's Studies and sexual assault specialist for the Center for Counseling and Psychological Services.

National statistics estimate that one in six women will be victims of rape or attempted rape during their college years.

On college campuses, date/acquaintance rape is the most underreported of crimes, with figures that point to only one of every 100 of these assaults ever being reported to authorities, she said.

"The purpose of the newly published protocol is to improve the quality of assistance to the victim," Ms. Moyer said. "Specific steps are listed to help the individual contact person direct victims of sexual assault to the appropriate resources for medical and psychological counseling."

The protocol also helps the initial contact person clarify when and where to report rape and sexual assault cases to authorities.

"In addition to providing information on reporting to authorities," Ms. Moyer said,

"the protocol manual includes a form for reporting incidents. The victim's identity on the form is kept completely anonymous. The data collected will be used to identify potential trends such as type of assault, alcohol, drugs or weapons involved, medical follow-up and safety issues related to where the assault occurred."

According to Dr. Spear, response to the protocol has been overwhelmingly positive.

"Since its initial distribution to more than 200 University Park administrators, deans, faculty and staff, some 200 additional requests for the protocol booklet have been received by our office," she said.

"The protocol also has been sent to all of Penn State's Commonwealth Campuses. The expectation is that by using it as a framework, all Penn State campuses now will have consistent policies related to the issue of sexual assault."

Dr. Spear said, in addition to distribution of the protocol manual, there are plans to provide special training in use of the protocol to key contact groups such as residence assistants and University Health Services staff. Supplementary workshops may be conducted in the future, based on interest level.

Salaries

continued from page 1

"I don't want a union here, and I know most of you don't either."

The debate and some of the proposed amendments centered on the implications of the plan, the appropriate committee for developing the proposal, and its timing. Robert Secor, vice provost, urged postponing the vote until the implications of the plan could be ascertained.

"Are we mandating the president to go to Harrisburg and get more money for higher salaries," he asked, "or are we saying we're concerned about inequities in the system and want salaries redistributed (using existing resources only)?"

One faculty member who favored the Roberts proposal, from a Commonwealth campus, said he felt as if he is "slowly bleeding to death. The University does not value me. I really believe that."

John Moore, professor of English — who urged postponement of Roberts' proposal — nonetheless said it could "force us to confront a real sense of inequity" in faculty salaries.

Dr. Moore also referred to an informational report (based on selected AAUDE public institutions) on faculty salaries that was released at the meeting, which shows that 1995 Penn State salaries (at University Park) average \$74,300 for full professors, \$52,800 for associate professors, and \$43,200 for assistant professors. (Chart above differs slightly due to inclusion of librarians).

"I am very happy for those of you who actually make that salary," Dr. Moore said. "But a good number of my colleagues don't appear on these lists."

The special committee that will develop the minimum salary plan was previously charged with examining equity issues in Penn State faculty salaries and is expected to come out with its report in April, possibly in March.

The Senate also:

■ Appointed a group to review the ongoing effect of Commonwealth Educational System (CES) campuses and other Penn State locations to devise missions for the future that best meet the needs of their local communities (*Intercom*, Oct. 26, 1995) and is setting up a special committee to assess and recommend changes to Penn State's general education requirements. The 11-member CES group, chaired by Senate Chair Peter Jurs, will include four CES faculty members. The general education committee of about 20 members, still being assembled, will be chaired by Robert Pangborn, associate dean in the College of Engineering and a for-

BIG TEN

FACULTY SALARY COMPARISONS

1994-95

Average 9-month equivalent (includes librarians)*

PROFESSOR		ASSOCIATE PROF.	
School	Avg. Sal	School	Avg. Sal
Michigan	80.6	Michigan	58.4
Penn State	74.4	Penn State	51.7
Purdue	73.4	Iowa	50.7
Ohio State	72.5	Michigan State	50.4
Iowa	71.4	Ohio State	50.3
Illinois	71.2	Illinois	50.0
Minnesota	70.6	Minnesota	49.8
Wisconsin	69.9	Wisconsin	49.8
Indiana	68.7	Purdue	48.7
Michigan State	67.2	Indiana	47.0

ASSISTANT PROF.		INSTRUCTOR	
School	Avg. Sal	School	Avg. Sal
Michigan	47.2	Iowa	39.7
Wisconsin	45.2	Michigan	32.5
Iowa	43.3	Michigan State	31.6
Illinois	43.1	Minnesota	30.6
Minnesota	42.8	Ohio State	29.8
Purdue	42.8	Wisconsin	29.7
Ohio State	42.3	Penn State	28.7
Michigan State	42.0	Purdue	27.0
Penn State	41.7	Illinois	24.6
Indiana	39.8	Indiana	—

Source: Annual Report on the Economics Status of the Profession, *Academe: Bulletin of the AAUP*, 1994-95 and the Association of Research Libraries data exchange. Northwestern University was not included because librarians' average salaries were not available by rank. *All 12-month salaries were converted to a 9-month equivalent using the standard conversion factor of .818(9/11). All Penn State figures are for University Park.

mer Faculty Senate chair.

■ Heard University President Graham B. Spanier discuss several issues, including potential enrollment growth and the ongoing CES planning process. Dr. Spanier said he is extremely pleased with what he has heard about the CES plans recently submitted to Robert E. Dunham, senior vice president and dean for CES. The process is "precisely on schedule," said Dr. Spanier, who added that he is confident the plan will bring about "an expanded, improved, strengthened set of programs."

■ Received an advisory/consultative report on revised guidelines for joint faculty/administrative committees and informational reports on the 1996-97 faculty census, the University's long-term debt and debt service, and a construction programs status report.

In other business, Dr. Jurs reported that the administration has approved a Senate-recommended policy change (to policy HR-23) that allows the names of candidates for promotion and/or tenure who have received positive recommendations at the department and college levels — but who have not been recommended by the dean of the

college — to be forwarded to the president's office.

The new policy also requires a dean who intends to make a negative recommendation, in cases where all previous recommendations have been positive, to meet with the University Promotion and Tenure Review Committee for consultation.

The change will take effect in the 1996-97 academic year. Under the previous policy, candidates for promotion and/or tenure who did not receive the dean's recommendation — even if they had received positive recommendations at every previous stage of the process — were not recommended to the president's office for promotion and/or tenure.

The policy change was recommended last month in an advisory/consultative report from the Senate's Committee on Faculty Affairs. In all such reports, the Senate advises or makes recommendations to the president, whose office then responds to the Senate.

The Senate's next meeting will be at 1:30 p.m. Feb. 27 in Room 112N, Kern Building.

— Alan Janesch



LECTURES

Panel to talk about covering the president

Two former White House press secretaries, a veteran member of the Washington press corps and one of America's leading political writers will take part in a panel discussion, "The Press and the President," on Tuesday, Feb. 27.

Jody Powell, Pierre Salinger, Helen Thomas and Juan Williams will speak at 8 p.m. in Eisenhower Auditorium on the University Park Campus.

The panel discussion is sponsored by the University's Programming Coordination Board Distinguished Speaker Series, formerly known as Colloquy.

Mr. Powell is chairman and chief executive officer of Powell Tate, a Washington public relations firm specializing in public affairs. When Jimmy Carter became the governor of Georgia in November 1970 he was appointed press secretary — a position he held through the end of Carter's term as president of the United States.

From January 1982 to January 1986, he wrote a twice-weekly column syndicated by the Los Angeles Times Syndicate and was a news analyst for ABC News. His book, *The Other Side of the Story*, about the press/presidency relationship, was published in April 1984.

Mr. Salinger joined Burson-Marsteller in 1963 as vice chairman after a 15-year career at ABC News. He came to national prominence first as chief investigator for Robert F. Kennedy, who was counsel to the U.S. Senate committee investigating Teamsters International president Jimmy Hoffa, winning in the process the confidence of Sen. John F. Kennedy.

He organized and headed press operations for Sen. Kennedy's 1960 presidential campaign and was named White House press secretary. He is the author of eight books, including *With Kennedy*, (1965), and *Secret Dossier, the Hidden Agenda Behind the Gulf Crisis*, (1991).

Ms. Thomas joined UPI and the Washington press corps in 1943. She began covering President-elect John F. Kennedy in November 1960 and went to the White House in January 1961 as a member of the UPI team. Since then she has opened and closed many news conferences in the ensuing presidencies.

Ms. Thomas was named "News-paper Woman of Washington" in 1968 by the American Newspaper Woman's Club. She has received six honorary degrees.

Mr. Williams is the author of the 1987 nonfiction bestseller *Eyes on the Prize: America's Civil Rights Years, 1954-1965*, companion volume to the critically praised PBS series. In an 18-year career with the *Washington Post*, he has served as editorial writer, op ed columnist, city hall chief correspondent, White House correspondent and in his current position as national correspondent covering political and social issues.

A graduate of Haverford College, he holds honorary degrees from Wilmington College and the State University of New York.

The panel discussion is open to the public. For more information, contact the Programming Coordination Board at (814) 863-8951.

Medieval art lecture series continues

The College of Arts and Architecture Department of Art History continues its lecture series "The Fortune of Medieval Art in America" with a lecture by Pamela Hemzik, a specialist in medieval manuscript painting. The lecture, titled "A Circle of Manuscript Collectors in Early 19th-century Baltimore," is scheduled for 2 p.m. Sunday, Feb. 11, in the Palmer Lipson Auditorium of the Palmer Museum on the University Park Campus.

Dr. Hemzik recently received her Ph.D. in art history from Penn State. She is assistant professor of art at York College of Pennsylvania and a contributor to the exhibition catalog. The topic of her lecture is an outgrowth of her research on the 15th-century

"Book of Hours" acquired by Baltimore collector Robert Gilmore in 1807. The "Book of Hours" is currently on exhibit at the Palmer Museum.

The lecture is planned in conjunction with the exhibition "Medieval Art in America: Patterns of Collecting 1800-1940," shown at the Palmer Museum through March 3. All lectures are free to the public and will be presented at 2 p.m. in the Palmer Lipson.

The lecture series is intended to expand upon selected topics explored in the exhibition and its accompanying catalog. All lectures in the series are co-sponsored by the Institute for the Arts and Humanistic Studies and the Center for Medieval Studies.

Author to lecture on women at conference

Susan Bordo, author of the award-winning book *Unbearable Weight: Feminism, Western Culture and The Body*, which addresses cultural and philosophical ideas about women and body image, will give a keynote lecture at the upcoming Gender & Resistance Conference on the University Park Campus.

The lecture, "Can A Woman Harass A Man? Toward a Cultural Understanding of Bodies and Power," which is free to the public, will be presented at 6:30 p.m. Saturday, Feb. 17, in the Classroom Building Auditorium. The lecture is sponsored by the Department of English, Institute for the Arts and Humanistic Studies, Research and Graduate Studies Office (RGSO), Women's Studies, Commission for Women and Department of Speech Communication.

Professor Bordo's book addresses the issue of the cultural anxiety over women's bodies through examples ranging from Madonna to the poet Delmore Schwartz. She links the prevalence of eating disorders to the changes in opportunities for power for women. The book uses principles of contemporary philosophy to analyze media images of women and puts forth a theory that is complex but understandable.

Professor Bordo holds the Singletary Chair of Humanities at the University of Kentucky. Her first book which addressed the cultural influence of Cartesian objectivity; her current research addresses masculinity and the male body.

The keynote lecture is part of the Gender & Resistance Conference, the 10th Annual Midwest/Mid-Atlantic Feminist Graduate Student Conference. Graduate students from across the country will deliver academic papers, read narratives and poetry, and perform plays from Friday, Feb. 16, to Sunday, Feb. 18. Paper topics range from investigations of the gendered significance of Martha Stewart's domestic engineering to the implications of the diary-style narratives of male North Pole explorers in the early 20th century.

The conference, which is held at a different university each year, was organized by two graduate students in the Department of English: Christina Jarvis and Danielle Conger. Susan Squier, professor of English and Brill Chair of Women's Studies, is the conference adviser.

For more information, contact Ms. Jarvis, (814) 238-3715, or Dr. Squier, (814) 863-9582.

Professor's topic is finding and publishing "lost" poetry

George Bornstein, C.A. Patrides Professor of literature at the University of Michigan, will speak at 4 p.m. Thursday, Feb. 29, in the Fireside Room of the Nittany Lion Inn on the University Park Campus. His lecture, titled "Under the Moon: Finding New Poems by W. B. Yeats," relates to his adventures in finding and publishing 38 early poems by William Butler Yeats, 5 of which had never seen print before.

Dr. Bornstein discovered the poems over a 15-year period. The poems were published last summer by Charles Scribner's Sons in a volume titled *Under the Moon*.

Dr. Bornstein is the author of a

number of books, including *Yeats and Shelley* (1970), *Transformations of Romanticism in Yeats, Eliot, and Stevens* (1976), and *Poetic Renaming* (1988).

The lecture is sponsored by the Center for the History of the Book, Department of English, College of the Liberal Arts, University Libraries and the Institute for the Arts and Humanistic Studies. A reception will follow the presentation.

On Thursday evening, Dr. Bornstein will demonstrate his prototype for the Electronic Yeats Project: an experiment in cyberspace editing and publishing. For details contact J. L. W. West III, Institute for the Arts and Humanistic Studies, (814) 863-0495.

Behrend has child care speaker series

The Child Care Center at Penn State Erie, The Behrend College is providing a spring speaker series as a service to parents who use the facility, and will open it to the public as well.

All of the presenters will give their talks at the Child Care Center, 5650 Station Road, at 6:30 p.m. A \$3 donation will be taken to help cover costs. On Wednesday, Feb. 21, Bill Donahue, manager of Police and Safety Services at Penn State-Behrend, will address fire safety issues and discuss fire extinguishers and smoke detectors.

Sharon Piano from the Nutrition and Dairy Council will be the featured speaker on Wednesday, March 20. Ms. Piano will discuss proper nutrition for children.

The final speaker for the series is Candy Jaruszewski, director of early childhood education at Gannon University. She will give a talk on the Reggio Emilia curriculum on Wednesday, May 15.

For more information about the series, contact Penn State Erie, The Behrend College Child Care Center at (814) 898-6175.

More Lectures

Behrend to hold interactive teleconference on Feb. 14

Penn State Erie, The Behrend College will hold a live interactive video teleconference, "The Role of Computer Simulation in Today's Manufacturing," from 8:45 a.m. to 1 p.m. Wednesday, Feb. 14. The event will be followed by a lunch presentation and a demonstration.

During the broadcast, simulation experts and manufacturers who use simulation will discuss the technology's practical applications and the steps both small and mid-sized companies can take to implement the technology, with an emphasis on cost savings.

Discrete-event simulation is a powerful technological innovation which computers imitate the operations of real world facilities, processes and designs. Simulation software allows users to create and evaluate

product and process concepts on computer rather than make standard models and expensive prototypes.

Among those scheduled to host the teleconference are: **Jerry Banks**, professor in the School of Industrial and Systems Engineering at the Georgia Institute of Technology; **Omur Ulgun**, founder and senior consultant of the Production Modeling Corp.; and **Van Norman**, president, CEO and co-founder of AutoSimulations Inc. The conference will also feature case studies of several business that have used and benefited from computer simulation in manufacturing.

The teleconference is part of an ongoing series presented through the National Technological University. For more information or to register, call PENNTAP at (814) 898-6145.

Life on other planets pondered Feb. 17

The fifth lecture in the 1996 Penn State Lectures on Frontiers of Science, titled "Are There Other Planets that Could Support Life?" will be given on Feb. 17 by **Alex Wolszczan**, professor of astronomy and astrophysics. Dr. Wolszczan discovered the first planets ever detected outside our solar system. His lecture concerns conditions that led to the creation of earth and the other planets in our solar system from a protoplanetary disk of gas and dust associated



with the formation of the sun. The lecture, to be presented at 11 a.m. in Room 104 Classroom Building, is sponsored by the Eberly College of Science.

Parking is available at the HUB Deck parking garage on Shortlidge Road.

For more information, contact the Eberly College of Science Office of Public Information by telephone at (814) 863-9455 or (814) 863-4682, or by E-mail at science@psu.edu.

Oswald

continued from page 1

Richardson oversees one of the nation's most distinguished foundations. The foundation was established in 1930 "to help people help themselves through the practical application of knowledge and resources to improve their quality of life and that of future generations."

Most foundation grants are awarded in the areas of integrated, comprehensive health care systems; food systems and rural development; youth development; higher education; leadership; and philanthropy and volunteerism. Grants are concentrated in the United States, Latin America and the Caribbean, and southern Africa.

Dr. Richardson recently gave the opening address to the newly formed W.K. Kellogg Commission on the Future of State and Land-grant Universities. The commission



William C. Richardson

is composed of presidents from 20 state and land-grant universities, including Dr. Spanier. The group is

STS Program has series of brown-bag lectures planned

The Science, Technology and Society (STS) Program is offering a series of brown-bag lectures from noon to 1:15 p.m. on Wednesdays throughout the spring semester. All lectures will be held in 118 Willard Building on the University Park Campus.

The following lectures are scheduled:

■ Feb. 14: **Tai-Wel Lee** will discuss "Technology Education in Taiwan: An STS Approach;

■ Feb. 21: **Franz Foltz** talks about "The Rise and Fall of Global Climate Change Research";

■ Feb. 28: **Rector Flores** will explore "Intellectual Ecology of Science";

■ March 13: **Richard Doyle** lectures on "Long Live the New Fresh:

Downloading Confession and the Silicon Moment";

■ March 20: **Lance Bush**, (NASA Langley), tackles the topic of "NASA and Technology Transfer: A Case Study of NASA Langley";

■ March 27: **R. Thomas Berner** discusses "The Sustaining Nature of the Ancient Chinese Process of Reprography";

■ April 3: **Jock Lauterer** will talk on "Digital Imaging Manipulation: Is the Genie out of the Bottle?";

■ April 10: **Deborah Wheeler** will explore "Communication Technology and the Security of Islamic Values."

Check the STS World Wide Web site at URL: <http://ecp.psu.edu/sts/> for information about activities and the STS Program.

Researcher's talk to key on travelers

Christopher Wickens, head of the Aviation Research Laboratory and professor of psychology at the University of Illinois, Champaign-Urbana, will present a lecture, "Frames of Reference in Navigation," at 4 p.m. Thursday, Feb. 15, in Room 101 Kern on the University Park Campus. The aim of the talk is to shed light on the way travelers make use of information about their changing position in the external environment, where the

updating of spatial position is achieved in different ways.

Dr. Wickens is the author of many books and articles and is widely viewed as one of the leading authorities on human factors psychology.

His talk is the third of four in a Distinguished Cognitive Speakers Series, made possible through a grant from the Research and Graduate Studies Office of the College of the Liberal Arts.

Population research to be discussed

Timothy Gage, professor of anthropology and epidemiology at State University of New York, will present the next seminar in the "Biological Issues in Population Research" series sponsored by the Population Research Institute. Dr. Gage will speak on "Variability of Birth Weight and Infant Mortality by Sex and Ethnicity: Analy-

ses Using Mixture Models." The seminar, from noon to 1 p.m. Tuesday, Feb. 13, in 406 Oswald Tower, will address substantive and methodological issues related to identifying the extent to which inter-ethnic heterogeneity in birthweight affect neonatal and infant mortality. For more information call Kris at (814) 863-9984.

charged with defining the direction universities must take to meet the challenges that higher education will face in the next century.

Before joining the Kellogg Foundation last August, Dr. Richardson was president of The Johns Hopkins University from 1990 to 1995, where he also was professor of health policy and management. He served as provost and executive vice president at Penn State from 1984 to 1990, and was dean of the Graduate School and vice provost for research at the University of Washington in Seattle from 1981 to 1984.

Active with many foundations, private institutions and public and private sectors, he is a member of the Institute of Medicine of the National Academy of Sciences and is a fellow of the American Public

Health Association. He serves on the boards of directors of the Henry J. Kaiser Family Foundation; the Committee for Economic Development; the Mercantile Bankshares Corporation; the Mercantile-Safe Deposit and Trust Company; and the CSX Corporation. He also serves on the external advisory committee of the Fred Hutchinson Cancer Research Center.

Dr. Richardson was born in Passaic, N.J. He graduated from Trinity College, Hartford, Conn., with a bachelor's degree in history, earned a master's degree in business administration from the University of Chicago Center for Health Administration Studies in the Graduate School of Business in 1964 and a doctorate from the University of Chicago Graduate School of Busi-

1

AMERICAN LITERATURE — Fred Lewis Pattee, who joined the faculty in 1894, became the first in the nation to hold the title of Professor of American Literature, a field then considered a minor subspecialty of English literature. He helped make Penn State one of the earliest centers for American literature studies.

2 ANIMAL NUTRITION — In the early 1900s Professor Henry Armsby used a respiration calorimeter to try to determine the net energy value of food—that is, the portion of food energy that an animal used to produce milk or meat. His experiments attracted worldwide interest and helped to develop livestock feeds of higher nutritive value.



3 ARCHITECTURAL ENGINEERING — Penn State offers America's oldest continuously accredited (since 1936) curriculum in this field. It introduced the curriculum in 1910 to provide "liberal training in both the aesthetic and construction sides of architecture."

4 ART EDUCATION — Penn State became an international center for art education when Austrian-born Viktor Lowenfeld joined the faculty in 1946. Lowenfeld was the most influential art educator of the 20th century and wrote the field's dominant book, *Creative and Mental Growth*, based on his pioneering work in psychology and the art of the visually impaired.

5 ARTIFICIAL INSEMINATION — Over a 30-year period beginning in 1946, dairy scientist John Almquist perfected commercially viable artificial insemination techniques for dairy cattle. His research has led to more than \$600 million worth of increased food production and cost savings worldwide.

6 ARTIFICIAL ORGANS — A heart-assist pump developed by medical and engineering faculty in 1976 to prolong the lives of cardiovascular patients was the first surgically implantable, seam-free, pulsatile blood pump to receive widespread clinical use. It led to the Penn State Heart, the only artificial heart approved by the U.S. Food and Drug Administration.



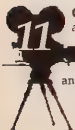
7 ASTRONAUTS — Three Penn Staters have flown in space: Paul Weitz, Robert Cenker and Guion S. Bluford Jr., the first African American astronaut, who flew on the space shuttle Challenger in 1983.

8 ASTRONOMY — Penn State operates the largest optical telescope east of the Rocky Mountains, and with the University of Texas is building a spectroscopic survey telescope that will have the largest primary mirror in the world.

9 ATOM FIRST "SEEN" — In 1955, physics Professor Erwin Mueller became the first person to "see" an atom, using a field ion electron microscope of his own invention. The device was a landmark advance in scientific instrumentation that allowed a magnification of more than 2 million times.

10 BEST-SELLING AUTHORS — Vance Packard (*The Hidden Persuaders*, *The Status Seekers*) earned his degree from Penn State in 1936. Jean Craighead George, a member of the class of 1941, authored the Newberry Award-winning children's book, *Juli of the Wolves*.

11 CINEMA — Penn State alumnus Julius Epstein won an Oscar for his screenplay for the classic Humphrey Bogart film, "Casablanca." Character actor Ed Binns, class of 1937, received critical praise for supporting roles in such box office favorites as "Patton" and "Fail Safe."



12

COMMERCIAL TELEVISION — Penn State alumni who have made their mark in television include Carmen Finestra, an executive producer and writer for the hit ABC-TV comedy "Home Improvement," Jonathan Frakes (Commander Will Riker on the hit television series "Star Trek: The Next Generation"), and writer and director Stanley Lathan ("Cagney and Lacey," "Remington Steele" and "Sanford and Son").

13

CORRESPONDENCE COURSES — In 1892, Penn State became the first American college or university to offer correspondence courses in agriculture, an initiative that was followed by national expansion of correspondence instruction in many technical fields.



14

DESERT STORM — Two Penn State alumni played leading roles in Operation Desert Storm. Lt. Gen. William G. "Gus" Pagonis, as chief of logistics, directed the shipment of a half-million troops and 10.5 million tons of material to the Persian Gulf in record time. Lt. Gen. John Yeosock commanded the U.S. Third Army and was in charge of deploying Army forces in the Gulf.

15

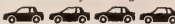
DIESEL ENGINEERING — One of the world's first academic research programs in diesel engineering began at Penn State in 1923. Discoveries in such areas as supercharging and scavenging helped to bring about today's fuel-efficient and powerful engines.

16

DISCOVERING PLANETS — Alexander Wolszczan, professor of astronomy and astrophysics, discovered the existence of three planets orbiting outside of our solar system—the first scientist to do so.

17

DRIVER EDUCATION — Amos Neyhart taught America's first classes for driver education teachers at Penn State in 1936, three years after he began the nation's first driver education course at nearby State College High School.



18

ENGINEERS EVERYWHERE — One in 50 professional engineers in the U.S. is a Penn State graduate.

19

ENVIRONMENTALLY CORRECT — Polymer scientist Bernard Gordon III developed a biodegradable plastic that, with the assistance of water, disappears in two years. Early tests indicate that molecular weight of the polymer reduces as water is added, and at 120 degrees to 140 degrees Fahrenheit, the material falls apart in three days.

20

ENVIRONMENTAL STRESS — The Noll Physiological Research Center, established in 1963, was the nation's first academic research center dedicated to studying human tolerance to heat, cold and other environmental stresses, and served as the prototype for similar labs worldwide.

21

FAMILY DOCTORS — Penn State's Milton S. Hershey Medical Center in 1967 became the nation's first medical school to establish a department of family and community medicine on the same level as traditional medical specialties. It also introduced a residency in the field, thus foreshadowing a renewed emphasis nationwide on family practitioners.



22

FIRST AG DEGREES — Penn State was the first American institution to confer baccalaureate degrees in agriculture, in 1861.

23

GERANIUMS — Penn State researchers developed the world's first commercially successful geranium grown from seed, the Nittany Lion Red.

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24

GREEK LEADERSHIP — Sororities, Penn State has organized 25 of all college organizations in the country.

25

HEAVY WATER — Penn State's Brickwedde in 1931 produced a substantial amount of deuterium needed to make "heavy water"—a substance used in atomic research.

26

ICE CREAM — In 1892, Penn State's America's first collegiate ice cream manufacture, following the pioneering "short course" program helped to make the University and its research in frozen confections. Ben & Jerry got their start from a course in ice cream making from Penn State.

27

INDUSTRIAL ENGINEERING — Penn State's world's first baccalaureate degree in engineering was introduced in 1861.

28

MANAGEMENT EDUCATION — As one of the nation's first management education classes boosted Penn State's reputation for providing instruction to thousands of fields as time management, employment, and served as models for similar programs.

State shaped World

1855, Penn State
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With 56 fraternities and 29
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NG — The
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ON — Established in 1915
continuing education pro-
perty, Penn State's manage-
sylvania's economy by tai-
ments statewide in such
e motivation and leader-
efforts nationally.

29 MATERIALS RESEARCH — In 1960, Penn State estab-
lished the nation's first interdisciplinary curriculum in
solid state technology and in 1962, created one of the
first interdisciplinary research laboratories, which has since won
international acclaim in materials synthesis, electroceramics,
diamond films and chemically bonded ceramics.

30 MATHEMATICS — Mathematician Haskell Brooks
Curry's research in the 1950s into the foundations of
mathematics, especially his development of combinato-
ry logic, later found significant application in computer
science, particularly in the design of programming languages.

31 METEOROLOGISTS — One in every four meteorolo-
gists in the United States is a Penn State graduate.

32 MINORITY ENROLLMENT — Among more
than 100 colleges and universities in
Pennsylvania, Penn State ranks second in the
enrollment of African Americans and graduates
more of these students than any other institution in the
Commonwealth.

33 MUSHROOM RESEARCH — In the 1920s, Penn
State became the first land-grant college to initiate
a comprehensive mushroom research program.
Researchers developed improved composts
and production practices that were adopted
by growers worldwide and also helped
Pennsylvania retain its leadership as the
No. 1 source of domestic mushrooms.

34 MUSIC — Fred Waring, nationally
beloved choral leader ("The man who
taught America how to sing") and
founder of The Pennsylvanians, was a
Penn Stater. So is Grammy Award-winning
singer, songwriter and pianist Mike Reid
("Stranger in the House," "Lost in the Fifties
Tonight").

35 NOBEL PRIZE — Stanford
University biochemist Paul Berg, a
member of Penn State's class of
1948, won a Nobel Prize in 1980 for
his study of the biochemistry of nucleic
acids.

36 NUCLEAR REACTOR — Penn
State in 1955 became the first
university to be issued a federal
license to operate a nuclear reac-
tor, which it continues to use for studies in
the peaceful uses of atomic energy and the
training of nuclear industry personnel.

37 PACEMAKER — A surgeon and two engineers at Penn
State perfected the world's first long-life, rechargeable
heart pacemaker.

38 PENN STATES EVERYWHERE — Penn State has
more than 340,000 living alumni. One in every 720
Americans, and one in every 70 Pennsylvanians, is a
graduate of Penn State.

39 PERSONALITY TESTS — In 1931, psychologist Robert
Bernreuter began refining his "Bernreuter Personality
Inventory," a pioneer multiphasic test of traits that
became the standard by which other personality tests were
measured and is still used worldwide for counseling and personnel
selection.

40 PETROLEUM RESEARCH — In the 1920s,
Penn State researchers began pioneering
investigations that identified the compo-

nents of crude oil, leading to significant improvements in the
refining process and the development of today's widely used
lubricants that can withstand extremes of heat and cold.

41 PLAYWRIGHTS — The hit Broadway play
"Give 'em Hell, Harry," based on the life
of President Harry Truman and
authored by Penn State alumnus Samuel
Gallu, was made into a critically acclaimed
motion picture. So was Penn Stater John
Pielmeier's "Agnes of God," which received three
Academy Award nominations.

42 PROGESTERONE — Pioneer steroid chemist Russell
Marker's work in synthesizing the hormone progester-
one in the 1930s laid the foundation for the birth con-
trol pill and such medical applications as cortisones and var-
ious hormone and steroid therapies.

43 PUBLIC TELEVISION — The first national conference of
educators and broadcasters was held at Penn State in
1952 and urged the Federal
Communications Commission to set aside
licenses for noncommercial use. The FCC
responded favorably, thus providing the
regulatory basis for today's system of public
television stations.

44 PURE FOOD — Pennsylvania's and the nation's pure
food laws stem partly from the work of pioneer
chemist William Frear, who in the early 1900s analyzed
foods for government agencies and headed an expert committee
whose recommendations shaped the landmark Pure Food and
Drug Act of 1906.

45 R VALUES — This widely adopted standard of heat
resistance, used to measure the insulating properties of
such materials as fiberglass and window glass, was
developed by Everett Shuman, who in the 1960s headed Penn
State's Building Research Institute.

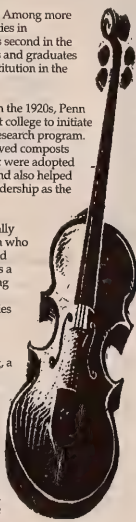
46 SCHOOL ADMINISTRATORS — One out of every four
senior school administrators in Pennsylvania is a gradu-
ate of Penn State.

47 SCIENCE, TECHNOLOGY AND SOCIETY — In 1969-70,
Penn State established the nation's first interdisciplinary
program in science, technology and society. Its integrative
courses addressing critical issues in these areas served as a model
for similar programs at many other universities.

48 TOYMAKER — Herman Fisher, co-founder and longtime
chairman of the board of Fisher Price, one of the nation's
largest toymakers, graduated from Penn State in 1921.

49 VISIONARY EDUCATOR — Evan Pugh, Penn State's first
president (1859-64), was among the first nationally recog-
nized advocates of adding science, agriculture and engi-
neering to traditional collegiate studies.

50 WEATHER PREDICTION —
Meteorologist Hans
Panofsky conducted
fundamental work at Penn
State (1952-82) that led to a new
understanding of atmos-
pheric turbulence, air pol-
lution, ozone depletion and
planetary atmospheres, and was
among the first to apply computer
analysis to weather prediction.



The ARTS

AT PENN STATE

Organ students to perform

Eight organ students from the school of June Miller, associate professor of music, will present a recital at 2 p.m. Sunday, Feb. 11, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The students will perform works by F. Couperin, Franck, Duruflé, Dupré, Messiaen, Vierne, Langlais and J.S. Bach. The recital is free to the public.

Soprano to give concert

Sara Hopkins, soprano, will present a conversation-recital titled "Verlaine in Song" at 8 p.m. Monday, Feb. 12, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

During the free concert, Ms. Hopkins will talk about Paul Verlaine's bohemian life and will discuss and perform many composers' musical interpretation of his poetry. Verlaine's new symbolism poetry transformed the literary world of fin-de-siècle France, and the form and content of his poetry have attracted many composers from the 1870s to present day.

Ms. Hopkins, instructor of voice in the School of Music, has performed widely on the East Coast in opera, oratorio and concert. She will receive her doctorate from the University of Maryland this year.

Eileen Cornetti is well known as a pianist and accompanist in the Washington, D.C., area. She teaches at the Peabody Conservatory of Music in Baltimore, Md., and in the summers at the Seagle Colony.

Tuba and percussion recital

A recital of tuba and percussion music will be presented by the Erickson-Shaw Percussion-Tuba Duo at 8 p.m. Tuesday, Feb. 13, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Mr. Martin "Marty" Erickson, tuba-euphonium professor in the School of Music, and Alison Shaw, assistant professor of percussion at Michigan State University, will perform the music of Vazanna, Schmidt, Beach and Debussy. Additionally, Mr. Erickson will be performing "tuba-jazz" from the standard and contemporary repertoire, assisted by Jeff Lawlis on piano.

Valentine's Day Concert

Centre Dimensions, Penn State's jazz ensemble, will present a Valentine's Day Concert at 8 p.m. Wednesday,



Performance

Timothy Shafer, associate professor of music, will play piano at 8 p.m. Friday, Feb. 16, in the School of Music Recital Hall on the University Park Campus. The performance is free to the public.

Feb. 14, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

This will be a special concert featuring soloists who are currently School of Music faculty members.

In addition to the solo performances the band will perform Don Sebey's "Take the A Train," which was originally written for the Maynard Ferguson band. In honor of the day, the group will perform Stan Kenton's version of "My Funny Valentine." The concert will conclude with Nat Pierce's "Basie's Back in Town."

A \$3 admission will be charged at the door the night of the performance.

Bach's Lunch

Essence of Joy, a choral ensemble directed by Anthony Leach, instructor in the School of Music, will perform a group of African-American spirituals at the Bach's Lunch concert at 12:10 p.m. Thursday, Feb. 15, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute concert is part of the Bach's Lunch series sponsored by the School of Music and the University Lutheran Parish.

Essence of Joy consists of 37 singers. The group was organized by Mr. Leach in 1991 to perform sacred and secular repertoire which emphasizes traditional and contemporary gospel music from the Afro-American culture.

The audience is invited to take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided. The concert is free to the public.

Piano recital

Timothy Shafer, associate professor of music, will give a piano recital at 8 p.m. Friday, Feb. 16, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The program will include a performance of original works for the piano by Mozart, Prokofiev and Chopin, as well as transcriptions for piano of a Bach violin work for Leopold a Godowsky and Rossini's "William Tell Overture," by Franz Liszt.

Dr. Shafer has held concerts throughout the United States, performing, teaching and discussing the rich heritage of piano repertoire. He is well-known for his frequent performances of the works of Franz Liszt, and has appeared in many recital series dedicated to that repertoire. With violinist James Lyon, Dr. Shafer is a member of "Duo Concertant."

Dr. Shafer earned a bachelor of music degree in piano performance from the Oberlin Conservatory, and a master and doctor of music degrees in piano performance from Indiana University at Bloomington.

The recital is free to the public.

"Our Town"

The University Resident Theatre Company opens the spring season with its production of "Our Town" under the direction of Helen Manfull, professor of theatre arts, at 8 p.m. Friday, Feb. 16, and will continue through Saturday, Feb. 24, in the Pavilion Theatre on the University Park Campus. The University Resident Theatre Company is a part of the College of Arts and Architecture Department of Theatre Arts.

The play, written by Thornton Wilder, is a story of the daily ritual and rites of passage in a small New Hampshire town at the turn of the century. Within these simple events, however, the universal essence of human life is explored.

Dr. Manfull most recently directed "The Game of Love and Chance" for UKTC. In the spring of 1996, she plans to retire after reprising the 1972 children's production of "The People" for Pennsylvania Centre Stage.

All evening performances of "Our Town" will begin at 8 p.m. with one matinee performance on Saturday, Feb. 24 at 2 p.m. Student preview performances will be held on Wednesday, Feb. 14 and Thursday, Feb. 15, at 8 p.m.

Tickets are \$9.50 and \$8.50 for adults; \$7.50, \$6.50 and \$5.50 for students. For ticket information contact the Arts Ticket Center, open Monday through Saturday, 8:30 a.m. - 4:30 p.m. at (814) 863-0255. Outside the local calling area, phone (800) ARTS-ITX.



Coming events

Feb. 8

Nittany Lion Basketball vs. Illinois
7:30 p.m. Tickets: \$12; students \$6 with ID.

Feb. 9

Lady Lion Basketball vs. Michigan
7:30 p.m. Tickets: \$6; students free with ID.

Feb. 10

Nittany Lion Basketball vs. Michigan St.
8:00 p.m. Tickets: \$12; students \$6 with ID.

Feb. 11

Lady Lion Basketball vs. Northwestern
2 p.m. Tickets: \$6; students free with ID.

Feb. 17

Lady Lion Basketball with special guest Wade Hayes, 8 p.m. Tickets: \$23.50 reserved; students \$22 with ID (limit 2 per student).

Feb. 22

Nittany Lion Basketball vs. Michigan
8 p.m. Tickets: \$12; students \$6 with ID.

Feb. 23

Lady Lion Basketball vs. Michigan St.
7:30 p.m. Tickets: \$6; students free with ID.

Feb. 28

Nittany Lion Basketball vs. Northwestern, 8 p.m. Tickets: \$12; students \$6 with ID.

Feb. 29

Rob Stewart "In The Round," 8 p.m. Tickets: \$38.50-Gold Circle Seating; \$27.50, \$22.50.

March 9

Nittany Lion Basketball vs. Ohio St.
noon. Tickets: \$12; students \$6 with ID.

March 11

Sesame Street Live "When I Grow Up," 7 p.m., starring Jim Henson's Sesame Street Muppets. Tickets: opening night special, all seats \$8.50 Tickets go on sale Sunday, Feb. 11.

March 12

Sesame Street Live "When I Grow Up," 10:30 a.m. and 7 p.m. Tickets: \$13 for adults; \$11.50 for children age 1 to 10; infants admitted free to share parent's seat. Tickets go on sale Sunday, Feb. 11.

Tickets for all Bryce Jordan Center events can be purchased at the Bryce Jordan Ticket Center, selected Unimark and Penn State Campus Ticket Outlets in Altoona, Erie, Hazleton and Reading. Tickets can also be ordered by phone at (814) 863-5555 or toll free at (800) 863-3336.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, February 8

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Chamber Singers.

Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Aaron Rotner on "Collecting Medieval Art in America."

Friday, February 9

School of Music, 6 p.m., Old Main. Chamber Singers' Celebration of Love. For tickets, call (814) 865-0432. Also, Feb. 10 at 7:30 p.m.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. La Traviata New York City Opera National Company. For tickets, call (814) 865-0255. Also, Feb. 10.

Saturday, February 10

■ Film, 2 p.m., Palmer Lipson Auditorium. "Europe in the Middle Ages: Christians, Jews and Moslems in Spain."

Sunday, February 11

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Marshall Price on "Collecting Medieval Art in America."

School of Music, 2 p.m., Recital Hall. Organ Studio Recital.

Art History, 2 p.m., Palmer Lipson Auditorium. Pamela Hemzick on "A Circle of Manuscript Collectors in Early 19th-Century Baltimore."

Monday, February 12

Comparative Literature Luncheon, 12:15 p.m., 101 Kern. Vera Mark on "Excavations, Genealogies, and War Stories: The Personal in French Popular Literature." School of Music, 6 p.m., Recital Hall. Sara Hopkins, soprano.

Tuesday, February 13

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Angels in America (Part I) — Millennium Approaches." For tickets, call (814) 865-0255.

School of Music, 8 p.m., Recital Hall. Martin Erickson, tuba, and Allison Shaw, percussion.

Wednesday, February 14

Center for Women Students, noon, 120 Boucké Bldg. Deborah Atwater on "African-American Women in Higher Education: Challenges and Opportunities."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Angels in America (Part II) — Perestroika." For tickets, call (814) 865-0255.

School of Music, 8 p.m., Recital Hall. Centre Dimensions. For tickets, call (814) 865-0431.

Thursday, February 15

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Essence of Joy.

Center for Academic Computing, 1-3 p.m., Studio D, Mitchell Bldg. PBS teleconference "Communicating Electronically: New Methods for Publishing, Sharing and Distributing Information."

Hillel, 6:30 p.m., Palmer Lipson Auditorium. Film: "The Wooden Gun."

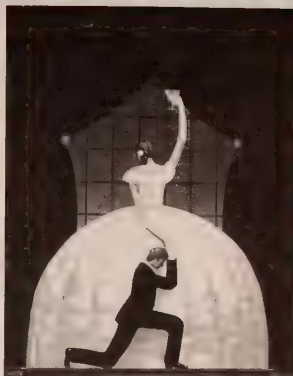
Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Kathryn McClinck on "Collecting Medieval Art in America."

Friday, February 16

Office for Minority Faculty Development Workshop, 3 p.m., 114 Kern. James Stewart on "Vine Development."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Annie." Also, Feb. 17. For tickets, call (814) 865-0255.

University Resident Theatre Company, 8 p.m., Pavilion Theatre. "Our Town." Through Feb. 24. For tickets, call (814) 865-0255.



On stage

The Center for the Performing Arts presents Verdi's *La Traviata*, performed by the New York City Opera National Company. p.m. Friday, Feb. 9, in Eisenhower Auditorium on the University Park Campus. For tickets, call (814) 865-0255.

Saturday, February 17

School of Music, 8 p.m., Recital Hall. Timothy Shafer, piano.

WFSX-TV, 10 p.m. Broadcast of "We Are the Dream," original presentation by Charles Dumas performed in Eisenhower Auditorium on Martin Luther King Jr. Day.

Sunday, February 18

■ Film, 2 p.m., Palmer Lipson Auditorium. "Europe in the Middle Ages: Byzantium — From Splendor to Ruin."

English, 6:30 p.m., Classroom Auditorium. Susan Bordo on "Can A Woman Harass A Man? Toward a Cultural Understanding of Bodies and Power." Lecture is part of the "Gender & Resistance Conference."

Sunday, February 18

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "Baroque Art at the Palmer Museum."

Art History, 2 p.m., Palmer Lipson Auditorium. Edson Arm on "The Rise and Fall of Romanesque Studies in America."

School of Music, 4 p.m., Recital Hall. Essence of Joy. For tickets, call (814) 865-0431.

SEMINARS

Thursday, February 8

Physics, 3:30 p.m., 101 Osmond lab. Mildred Dresselhaus on "Recent Advances in C (90) — Related Carbon Nanotubes." Computer and Science and Engineering, 4 p.m., 302 Pond Lab. Mark Mor on "Efficient Color Sharing in Shared-Memory Multiprocessors."

Food Science, 4 p.m., 201 Barland Lab. Michelle Eck on "Isolation of Osmoregulatory Mutants of *Staphylococcus aureus*."

Friday, February 9

Physics, 2:30 p.m., S5 Osmond Lab. Devarajan Thirumalai on "Protein Folding: In-vitro and In-vivo."

Accounting, 3:30 p.m., 333 Beam Bldg. Daniel Benesh on "Do Detected and Un-

detected Earnings Managers Differ?"

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Marylee C. Taylor on "The Local Context of White Racial Attitudes."

Saturday, February 10

Entomology "Catch the Bug," 10 a.m., 101 ASL. "Where Have All the Insects Gone?" Take a bug-watching walk to see where insects go in the winter.

Frontiers of Science, 11 a.m., 104 Classroom Bldg.

Charles R. Fisher on "Alien Life Forms on Earth."

Monday, February 12

Food Science, 10 a.m., 201 Barland Lab. Holly Daniels on "Granular Swelling, Leaching & Thermal Behavior of Selected Maize Starches as Influenced by Native Lipids."

Physics, 3:30 p.m., 339 Davey Lab.

Simon Mochrie on "Faceting Transformations of Stepped Si(113) Surfaces."

Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Bldg. Kevin Moroney on "The IBM SP2 and Its Place in High Performance Computing."

Sim Lecture, 8 p.m., 101 Classroom Bldg.

Alejandro Portes on "Growing Up American: The New Second Generation."

Tuesday, February 13

Population Research Institute, noon, 406 Oswald Tower. Timothy Gage on "Biological Issues in Population Research."

Geosciences, 3:30 p.m., 112 Walker Bldg. Allen Rogerson on "Prokaryotes and Eukaryotes: Which Came First?"

Food Science, 4 p.m., 117 Barland Lab.

James Levin on "Some important Subtleties That Significantly Influence Learning Outcomes of Instruction."

Wednesday, February 14

Adult, Continuing & Distance Education, 11:45 a.m., 502 Keller. Peter B. Everett on "Service Marketing is Very Different Than Product Marketing."

■ Science, Technology and Society Program, noon, 118 Willard Bldg. Ta-Wei Lee on "Technology Education in Taiwan: An STS Approach."

■ Center for Russian and East European Studies, noon, 102 Weaver Bldg. Barry Iokes on "Russian Transition to a Market Economy: A Progress Report."

Gerontology, 12:15 p.m., 101 H&H Ed. Dan Blazer on "Is Depression Less Frequent in Late Life? A Critical View of the Evidence."

Thursday, February 15

Sigma Xi, noon, 305 HUB. Karl Newell on "The Dynamics of Movement Forms." Physics, 3:30 p.m., 101 Osmond Lab. Gre-

gory Tarle on "Probing the Antimatter Content of Our Galaxy."

Distinguished Cognitive Speaker Series, 4 p.m., 101 Kern. Christopher Wickens on "Frames of Reference in Navigation."

Friday, February 16

Physics, 11 a.m., 339 Davey Lab. Gregory Tarle on "The Cosmologically Significant Matter Oscillation Search: COSMOS/EB03."

Physics, 2:30 p.m., S5 Osmond Lab. Leonid Zhigilev on "The Structure of Amorphous Metals: Dislocation Model and Molecular Dynamics Simulation."

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Daniel T. Uchler on "Child Poverty, Spatial Inequality, and Welfare Reform."

Saturday, February 17

Frontiers of Science, 11 a.m., 104 Classroom Bldg. Alex Wolsczkan on "Where in the Universe are Other Planets That Could Support Life?"

Sunday, February 18

■ Archaeological Institute of America, 4 p.m., 101 Kern Bldg. Kenneth Hirth on "In Search of Aztec Origins."

CONFERENCES

Tuesday, February 9

Jesus at 2000, The Penn State Scanlon. On "Granular Swelling, Leaching & Thermal Behavior of Selected Maize Starches as Influenced by Native Lipids."

Friday, February 16

Gender & Resistance Conference. Through Feb. 18. For information, call Susan Squier at (814) 865-9582.

Exhibits

HUB

Formal Art Gallery:

Bill Hutson's "Image To Object," through Feb. 25.

Browsing Gallery:

Evelina Francis' fiber sculptures, through March 17.

Art Alley Panels:

Myka Leacy Craig, commercial photography, through Feb. 18.

Art Alley Cases:

Art students' ceramics, through Feb. 18. Kern Exhibition Areas

Kern Panels:

Teri Karpovich photography, through Feb. 21.

Kern Cases:

Sam Chao woodworking, through Feb. 18. Palmer Museum

"Medieval Art in America: Patterns of Collecting 1800-1940," through March 3.

"Rapture at the Interface Between Love and Disease," contemporary photography and sound by David Teplica and Bryan Shuler. Through March 10.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10.

"Recent Gifts: The Jack Bershad Poster Collection," through June 9.

Lending Services Gallery:

"Reveries of Fire and Water," an exhibit of oil paintings by Kay Picard. Through Feb. 29.

Paul Robeson Cultural Center

■ "Africa and the Diaspora: Personal Collections," exhibition of African, African-American, Haitian and Brazilian art and artifacts. Through Feb. 23.

Ritner Lobby:

Erica Cho prints, intermittent. Through Feb. 28.

■ Reflects an international perspective



Benchmarking used

At a recent University Libraries colloquium, Sally Kalin, acting assistant dean and head of Collections and Reference Services, and Katie Clark, acting chief of Reference and Instructional Services, presented: "Yes, Academic Institutions CAN Learn from Corporations: Best Practices from IBM's Help Center."

One of the most important new areas for library service is supporting remote users. In benchmarking with IBM, Ms. Kalin and Ms. Clark learned that it is more efficient to hire full-time staff rather than part-time employees. Another lesson focused on the "soft skills" of service to customers.

More benchmarking

Members of a benchmarking team from the Undergraduate Admissions Office benchmarked the process for taking incoming calls to university admissions offices at Michigan, Minnesota, Pittsburgh, South Carolina and Rutgers. Their findings showed that the partner universities had more people answering calls during business hours, provided more consistent and continued training and employed flexible, user-friendly technology. Toward meeting these goals, the team developed some short- and long-term recommendations. Members of the team are Joy Dietze, Mary Adams, James Carideo, Donna Case, Steven Ficht, Harry Lehigh, Mary-ellen Madigan, Jean Mallory, Thomas Riley and Anne Rohrbach. The team sponsor is John Romano.

Benchmarking, take 3

The Business Services' Quality Control Team traveled to Josten's Printing and Publishing Company in State College to benchmark their printing procedures. At Josten's, the key is teamwork. Members of the Business Services team are Denise Hosterman, Cheryl Krout, Donna Shawley, Glenn Heaton, Todd Emel, and Ron Smoyer. Team sponsor is Bob Hendershot and the facilitator is Jackie Esposito.

To learn more

"Case Studies in Process Benchmarking," an HRDC program, will be taught on April 24 and 30. For more information, call (814) 865-8216.

For information about Continuous Quality Improvement, call Louise Sandmeyer, executive director of the CQI Center, at (814) 863-8721.

"Britannica Online" a good resource for faculty, staff, students

By DOUG STANFIELD
technology editor

The University Libraries is embracing new ways to provide information through the Internet in a big way.

One of the newer resources for basic research by students and faculty is "Britannica Online." This is an information service provided by Britannica Advanced Publishing Inc., an Encyclopaedia Britannica company.

It consists of a fully searchable and browsable collection of authoritative references, including Britannica's latest article database, hundreds of articles not yet in the print Britannica, Merriam-Webster's Collegiate Dictionary (Tenth Edition), the Britannica Book of the Year, and more.

The Libraries arranged with Britannica to make the online version available to any Penn State student, faculty or staff member as long as they log on through the University computer network. The company's computers automatically determine if the user is coming from Penn State by checking the IP address. No additional passwords or log-on procedures are required.

The Encyclopaedia Britannica has been recognized as the world's most



comprehensive reference product since its first publication in 1768. Advanced search and retrieval capabilities and the flexibility of the World Wide Web now make that resource even more powerful.

"Britannica Online" is a good place to jump in and check something out quickly," said Lisa Recupero, a librarian in the Earth and Mineral Sciences Library. "It's a good place to get started on basic research."

To inspect the graphical version of this service, use any World Wide Web browser, such as Netscape, to open URL: <http://www.eb.com> and click on "Search Britannica Online."

The Libraries also make a non-graphical version available through LIAS using Linux software.

The user will be able to search articles by keyword or phrase (e.g., "what

is the riddle of the Sphinx?") and through hypertext links. There are also links to recently added articles, the "Propedia," or outline of knowledge, with links to relevant articles; the "Book of the Year;" "Nations of the World" links; "Britannica Classics," a Random Article link ("for when you don't yet know what you want to know"), and a sample picture tour.

Libraries' patrons and online browsers also might want to stay tuned for future developments out of Pattee.

All branch libraries and campus libraries are preparing their own Web pages. In addition, later this semester, the first WWW offerings from the University Archives will go online. Historical sections of the Penn State Source Book, the University's chronology, presidential biographies (with pictures), and a general history of the University and exhibit of archival photos will be available.

Plans also are in the works for archival materials related to the State College Centennial celebration and a package of materials related to the theme "Penn State in the Olympics."

You can reach Doug Stanfield by E-mail at dus9@psu.edu

Arts

continued from page 8

Country star at Jordan Center

Country music star Alan Jackson, with special guest Wade Hayes, will be appearing at the Bryce Jordan Center at 8 p.m. Saturday, Feb. 17. Tickets are \$23.50 for reserved seating and \$22 for Penn State students (limit two reduced-price tickets per student). For ticket information, call (814) 865-5555. Outside the local area, call (800) 863-3336.

Considered by fans and critics alike to be true country, Alan Jackson is touring following the release of his critically acclaimed career retrospective album "The Greatest Hits Collection." Spanning the entire spectrum of this Georgian's successful career in the 90s, this album demonstrates Jackson's ability to sing directly from the heart while documenting real-life experiences.

Ellis & Branford Marsalis to perform

Come join other jazz lovers on Monday, Feb. 26 as Ellis & Branford Marsalis perform at Eisenhower Auditorium on the University Park Campus.

Ellis & Branford will be celebrating the release of their new recording "Loved Ones" with this 8 p.m. performance sponsored by the University Concert Committee. The album, the first the father-son team has ever recorded together, includes some of the most beautiful ballads ever written.

Tickets for this event are \$19, with a six ticket limit. Sales begin on Wednesday, Feb. 7 for Penn State ID holders; Thursday, Feb. 8 for the general public at the Eisenhower Auditorium Box Office, Monday through Saturday, 8:30 a.m. to 4:30 p.m. Phone orders begin Feb. 8 at (814) 863-0255. Outside the local calling area, phone (800) ARTS-TIX.

Rod Stewart "In the Round"

Rock-'n'-roll legend Rod Stewart will take the stage at 8 p.m. Thursday, Feb. 29, at the Bryce Jordan Center.

Rod Stewart "In the Round" will provide the audience with a performance that captivates and gives fans an upfront and personal view. Tickets are \$22.50, \$27.50 and

\$38.50 for Gold Circle Seating. Tickets can be purchased at the Bryce Jordan Ticket Center, selected Uni-Marts throughout Pennsylvania and Penn State Campus Ticket Outlets in Altoona, Erie, Hazleton and Reading or charged by phone at (800) 863-3336.

For 26 years, Rod Stewart has been on a roll, keeping the belief alive that the best never slow down and never look back. His list of favorites includes the No. 1 hits "Maggie May," "You Wear It Well," "Tonight's the Night," "Do Ya Think I'm Sexy" and "Passion." His multi-platinum albums include *Gasoline Alley* in 1970, *Blondes Have More Fun* in 1978, *Camouflage* in 1985, *Storrier*, *The Complete Anthology* in 1990, and his last studio album, *Vagabond Heart* in 1991. His 1993 album, *Unplugged...And Seated*, produced the No. 1 hit, "Have I Told You Lately That I Love You." For more information, contact the Jordan Center at (814) 865-5555.

Poster collection at the Palmer

"Recent Gifts: The Jack Bershad Poster Collection" is a selection of posters on exhibition through Sunday, June 2, in the Palmer Museum of Art on the University Park Campus.

In December 1978, the museum received a gift of 59 posters from Saul Steinberg. These examples of graphic art were primarily by Italian graphic designers of the late 19th and early 20th centuries. In December 1995, the Palmer received a second collection of posters by Jack Bershad. The strengths of this collection are also in the late 19th and early 20th centuries, but in French, Russian and American examples. In addition to advertising posters, the Bershad collection contains provocative examples of war posters from the United States, Australia and France, as well as 10 rare examples of propaganda posters from the Soviet Union. This exhibition is only a small selection of the 65 posters that comprise the Bershad gift.

For more information, contact the Palmer Museum of Art at (814) 865-7672. Museum hours are: Tuesday through Saturday from 10 a.m. to 4:30 p.m.; Thursday evenings 6 p.m. to 9 p.m.; Sunday from noon to 4 p.m.; closed Mondays.

The exhibition is free to the public.

Research

Researchers mapping out future for Pennsylvania's Laurel Ridge

Pennsylvania's Laurel Ridge, a mountainous region that extends from Ohio's State Park approximately 60 miles to the Conemaugh River near Johnstown, is a recreational playground of such popularity that civic leaders are analyzing the area's water resources to ensure the Laurel Ridge remains a tourism magnet.

Researchers in the College of Agricultural Sciences are using state-of-the-art computer mapping and analysis techniques to help officials in Cambria, Fayette, Somerset and Westmoreland counties make more informed decisions on land development and water resource usage.

The computerized geographic information system (GIS) can quickly access and analyze data on Laurel Ridge soils, elevation, water, streams, drainage, land use and other characteristics for the entire area.

Nearly half of the 300-square-mile area is publicly owned, and six state parks and three resorts are within its boundaries. Some 20 towns and villages are in the area and such recreational activities as hunting, boating, skiing and fishing attract about 15 million visitors each year.

"The Laurel Ridge is known for its high-quality water, for fishing and tourism," Rick Day, director of the Land Analysis Lab, said. "It's critical for policymakers to have an efficient tool that provides them with comprehensive information and analytical power so they can make decisions on how water and land resources are used."

Recently, increased groundwater exploration for private and municipal water supplies in the Laurel Ridge has focused attention on the need to better understand how the area's water resources function.

Dr. Day said the Laurel Ridge project uses layers of geographically referenced maps to assess a region's natural resources. Each map as well as data relat-



Graduate student Craig Anthony, left, and Rick Day, director of the Land Analysis Lab, examine data on characteristics of the Laurel Ridge area.

Photo: Greg Grieco

ing to it is represented as a layer within the computer and can be overlaid to reveal the interrelationships of various factors and how they might combine to affect the Laurel Ridge.

"Using a GIS is ideal because much of the data we work with for water resource management projects comes in the form of maps that show geology, hydrology, topography, soil and land use," Dr. Day said.

By using data layers, the Land Analysis Lab will locate critical water recharge areas, areas vulnerable to contamination, zones that have already been degraded, water discharge areas and locales that can accept further development. Dr. Day points out that the GIS can also help identify areas that might be valuable for extracting water resources or regions that could be threatened by increased groundwater pumping.

The Laurel Ridge GIS is particularly important because a significant portion of the region's high-quality water resources comes not from high-altitude runoff, but from

groundwater. The source of much of the groundwater supply is the Mauch Chunk/Burgoon aquifer. Many of the region's high-quality mountain streams are fed by groundwater forced out under pressure through artesian springs. These alkaline springs are vital for healthy aquatic systems because surface water runoff is often acidic.

"Part of what the GIS technology will do is show how a large-capacity well tapping into the aquifer in the Laurel Ridge might affect a mountain stream that is fed by the same aquifer," Dr. Day said. "Understanding the connection between groundwater exploration and surface water quality and quantity is critical to managing Laurel Ridge water resources."

Local officials in the Laurel Ridge area are concerned about water resources because most communities have historically used unfiltered surface water for municipal water supplies. However, the Safe Drinking Water Act mandates that all potable surface water

sources must be filtered by this year. To avoid the high cost of filtration, many communities are tapping or exploring for water in the Mauch Chunk/Burgoon aquifer. Within the last five years, about 30 municipal wells have been drilled into the aquifer.

"The mountain streams fed by artesian springs can be affected by wells," Dr. Day said. "If you over-pump the groundwater, you could create a major problem with surface water. With a GIS, you can help answer questions such as how much water you can pump without degrading the aquifer."

The GIS program also can help locate untapped groundwater resources and target high-quality recharge areas. Coupled with land-use map data, local officials can make better-informed decisions about land development.

Dr. Day, who estimates the five-year project has two more years to go, says GIS technology allows communities, which may have 20 separate water authorities in one region, to work together more easily.

— John Wall

It's difficult for computers to gain memory

Finding a way to put more and more random access memory (RAM) onto silicon chips may have just become more complicated, according to researchers.

"The problem is not new,"

Darrell G. Schlom, assistant professor of materials science and engineering, said. "We've known for many years that many binary oxides when placed on silicon react chemically with it, destroying the silicon and the oxide."

A binary oxide is a compound of oxygen with a chemical element.

A conducting oxide that is compatible with silicon would be a major help for increasing the storage capacity of future random access memory chips by allowing chips to store more memory in the same amount of space.

"In hopes of identifying such an oxide, we considered all of the oxides of the individual elements — binary oxides — and found that none of these that are stable in contact with silicon conduct," Dr. Schlom said.

Dr. Schlom and K.J. Hubbard, a materials science and engineering graduate now working at EPI, Chorus Corp., St. Paul, Minn., didn't use experimental methods to determine the incompatibility, but rather, looked at the thermodynamic properties of silicon and the binary oxides.

"We looked at the periodic table of elements from a theoretical, thermodynamic viewpoint, trying to find the oxides that are compatible with silicon," Dr. Schlom said. "And we eliminated almost everything."

The researchers' results agree with previous experimental work indicating which oxides work, but also supply information on what will not work.

"For all we know, every binary oxide has already been tried, but people tend not to report failures," Dr. Schlom said.

"We now know that simply putting a binary oxide on top of silicon will not be the easy solution to the computer memory crunch," Dr. Schlom said. "Now we need to go to the next level to find a solution."

Dr. Schlom's research will focus on finding a single conducting element that is compatible with both silicon and a binary oxide.

— Andrea Elyse Messer



New return policy

To ensure efficient processing of personal and departmental orders and keep our computer, software and peripheral prices the lowest possible, the Microcomputer Order Center has established a return policy. To view the particulars of this policy, log in to the *Intercom* site through the Office of University Relations home page at URL <http://www.pubinfo.oud.psu.edu>.

To return an item purchased from the MOC, call (814) 865-2100 or (800) 251-9281 in Pennsylvania. Have your customer order number or IBIS document number available.

Apple rebate offers

The Power Macintosh 7200 Power Payback Rebate gives you \$200 to \$500 back when a Power Macintosh 7200 series computer is purchased with select Apple displays and/or printers.

The PowerBook+Printer=Payback Rebate Offer pays you \$150 when you purchase any Macintosh PowerBook with select Apple printers. These offers are valid through March 17.

New Performa+Printer=Payback through March 17. Get a \$150 rebate on the purchase of any qualifying Apple printer when purchased with any qualifying Performa computer (including Power PC Performa CPUs).

Call the MOC or check our Web site at <http://moc.cac.psu.edu> for more details.

New spring MOC hours

Monday-Friday: 8:30 a.m.-5:30 p.m. Extended hours will be announced in correspondence to Penn State and MOC events. FAX orders are accepted. Call for a fax order form.

New at the MOC:

PAGEMILL 1.0 for Macintosh makes it easy to create pages for the World Wide Web; gives output error-free HTML; lets you edit Web pages directly; lets you test pages with the integrated preview browser; creates links without typing URLs or pathnames; and lets you insert and manipulate images within the same program.

SITEMILL for Macintosh automatically maintains correct links throughout a Web site; provides an overview of all resources in a Web site; allows easy navigation of links; and includes the page editing features in Adobe Pagemill. The site view shows all resources, page titles and folders; and automatically fixes all links throughout the site when files or folders are renamed, moved between folders or deleted.



Getting ready for the show

Bruce Trinkle, associate professor in the School of Music, works on a composition. Mr. Trinkle wrote an original composition, "Mountain Laurel's," which will be performed as a choral symphony Feb. 23-25 in Eisenhower Auditorium on the University Park Campus. Mr. Trinkle wrote the symphony to celebrate the State College centennial. For ticket information, call (814) 863-0255 or (800) ARTS-TIX.

Photo: Greg Gileco

Journal's only residence is in cyberspace

Video clips, live math and interactive illustrations will all be part of *Earth Interactions*, a new peer-reviewed journal that will only be available in cyberspace.

"Other journals, *Astrophysical Letters* for example, have online versions of their paper book," Eric J. Barron, director of Penn State's Earth System Sciences Center and chief editor of the journal, said.

Earth Interactions will be published only in electronic form. The journal is being designed to take advantage of the benefits of electronic media.

Color, which is indispensable for many geophysical, geologic and meteorological representations, is expensive in print, but free on the Internet. Time-lapsed video clips of actual storm formations or ocean currents and maps can be incorporated into the papers, eliminating long series of illustrations that only show change in illustrations.

Mathematical solutions can be worked line by line on screen, altered or run for different data. Besides being able to link through cyberspace to the original data sets, small data sets that can be manipulated will also be available.

The prospective authors for this journal come from the interdisciplinary earth sciences areas where highly complex computer use is standard. The journal, sponsored by NASA,

is the product of three scientific societies — American Meteorological Society, American Geophysical Union and the Association of American Geographers — with support from the Ecological Society of America and the Oceanographic Society of America. From the beginning, submissions, peer review, editing and publication will all be online.

"Things are already changing," Dr. Barron said. "The last call for proposals for NASA's Mission to Planet Earth was never printed. It was only available electronically and 4,000 people downloaded it."

The combined membership of the societies involved is nearly 45,000. Although *Earth Interactions* is a subscription publication, coupons for free, first-year subscriptions will be distributed to society members. Any software necessary to read the journal will also be distributed or available for free.

Earth Interactions will reside on the computer at the Goddard Space Flight Center.

Dr. Barron is a member of all three major contributing societies. Other editors are George F. Hefner, Department of Geography, University of Utah; David T. Sandwell, Institute of Geophysics and Planetary Physics, Scripps Institution of Oceanography; and Kevin E. Trenberth, Climate Analysis Center, National Center for Atmospheric Research.



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University being redesigned to meet changing needs

By ALAN JANESCH
writer/editor

In a forward-looking preliminary plan that builds on proposals from throughout the Penn State system, the University administration has proposed changing the shape of Penn State and the mission of virtually every campus in ways that will best serve the Commonwealth of Pennsylvania.

Major recommendations of the "Plan for the Commonwealth" include:
 ■ Changing the Abington-Ogontz and Altoona campuses into four-year colleges within the Penn State system, each headed by a dean who will report to the provost.
 ■ Combining the Allentown and Berks campuses. Berks may also become a four-year college.

More inside

- What do campuses think?
- Reactions from faculty
- The role each campus will play

■ Keeping Penn State Great Valley a graduate center, but having it report directly to the dean of The Graduate School.

■ Combining the Schuylkill campus with Penn State Harrisburg, to create a two-campus Capital College.

■ Combining the remaining 12 campuses into a new Commonwealth College that would have the same kind of authority as other colleges over curriculum, appointments, promotion and tenure, and planning and budgeting.

■ Encouraging expansion at Penn State Erie, The Behrend College and Penn State Harrisburg, and continuing the current missions at both locations.

While the plan breaks new and exciting ground for Penn State, at the same time it is firmly grounded in extensive analysis done by the 18 Commonwealth Educational System (CES) campuses, Erie-Behrend and Harrisburg-Capital. It is

See "Redesign" on page 6



Memories

John Lucas, Olympic historian and retired track coach, front, joined Don Ferrell, assistant professor of sport science, Harry Groves, track coach and coach of the 1992 Olympic track team, Patrick Kolivoski and Elizabeth Hanley, assistant professor of exercise science, during a "Tribute to the Olympics" theme dinner in the dining halls on the University Park Campus. Several Penn State Olympians were present to share their memories and celebrate the University's role in the Olympic Games.

Photo: Greg Grieco

Gov. Ridge proposes freezing appropriations

This past September, the Board of Trustees approved a modest state appropriations request for 1996-97, intended to cover only the University's most critical needs—such as telecommunications program improvements and a state-mandated increase in its contribution to the State Employees' Retirement System.

Penn State had asked for an appropriation of \$298.5 million, an increase of \$21.8 million over the total 1995-96 appropriation of \$276.7 million. But Gov. Tom Ridge's budget proposal, unveiled Feb. 6, would increase Penn State's appropriation by only \$762,000 — from the current level of \$276.7 million to \$277.4 million.

Taking inflation into account, as well as spending increases mandated by state and federal government, President **Graham B. Spanier** said the Ridge proposal would result in a reduction of state support. (The complete text of Dr. Spanier's response to the governor's proposal appears on page 3.) Dr.

See "Budget" on page 3

Inside



You're virtually there

Want to take a stroll around the president's office? You can do it without leaving your desk. To find out how, turn to page 2.



A regular column provided by the Office of Human Resources

Reminder

The Office of Human Resources wants to remind employees about tax-deferred annuities. See page 11 for information.

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Wonder what the president's office looks like? Find out through a virtual tour on the Web

By DOUG STANFIELD
technology editor

Unlike the open house at the president's office in October, this one doesn't include cookies and juice, and **Graham B. Spanier** won't greet you at the door.

But if you have access to a fast Mac or Windows computer, and either a speedy modem or a direct connection to the University backbone, you can take a virtual tour of the office anytime you wish, and in the process get a glimpse of a new technology that has many potential academic uses.

"I am pleased that we are able to test this new technique, both to encourage a greater sense of openness, and to help faculty experiment with new ways to enrich our students' academic experience. I look forward to having hundreds of unannounced, virtual visitors over the next few months," President Spanier said. "They won't disturb me in the least. And I hope we can continue to offer this kind of experience in the future as the technology improves."

But before stepping into the presidential digs, visitors need to take some intermediate steps: First, download some free software from Apple Computer, then follow World Wide Web links to the tour movie file from a server here at Penn State.

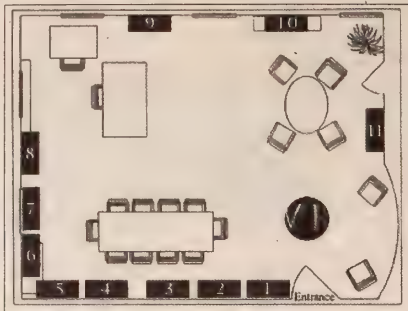
The tour project, a collaboration between the Multimedia and Emerging Technology Group, Center for Academic Computing and the Office of University Relations, begins at <http://istinyray.cac.psu.edu/President/>. The user follows the links to Apple Computer's download sites.

The tour offers two choices: One format lets you start with a two-dimensional floor plan of the office where numbered rectangles mark paintings on loan from the Palmer Museum of Art. If you click on the boxes, you can pull color photographs of the artwork onto your screen, along with details about the work and the artist.

Setting the virtual reality movie is still not as easy as it eventually will be, but perseverance is rewarded.

From the floor plan view, click on the "QuickTime VR" link at the bottom of the page, or open URL <http://istinyray.cac.psu.edu/President/Virtual.html>. You may also find a link to this site from the University Relations home page.

You will need to download two pieces of software that let you play the movie file from separate pages at Apple's server and install them on



Start here

When you reach the starting point of the virtual tour, you can click on any of the numbered items on the screen to learn about the artwork hanging on Dr. Spanier's office walls. Or, click on the "VR" ball and "step" into the president's office for a look around.

About the tour

- **What:** Virtual tour of President **Graham B. Spanier's** office.
- **Where:** Visit URL <http://istinyray.cac.psu.edu/President/Virtual.html>
- **Why:** To demonstrate technology that holds great potential for teaching and learning

your machine. Look for the links to the pages listed for your machine type, and be sure to carefully read all instructions.

Discussions are under way to see if Penn State can place the software on its servers to make downloading easier, but for now it can only be legally obtained from Apple in California. The company's servers are frequently working at capacity, so the best time to access the files is in the early morning hours, before 9 a.m. Eastern time.

"The virtual tour allows Web visitors to look up at the ceiling, turn completely around and zoom in on objects in the room," said **Mike Halm**, manager of the Multimedia and Emerging Technology group at CAC. "When we approached the president with this idea last fall, he encouraged us and asked that we made sure there was an educational component. We decided to focus on the artwork. Working with the Office of University Relations, we also included a brief history of Old Main written by **Mike Bezilla** and

Lee Stout, University archivist.

"Although the technology will be constantly improved, I think it's good enough at this stage to give people an idea of the potential."

The president agrees.

"There is tremendous educational potential for this technology in the future," Dr. Spanier said. "If people find creative uses for it, this interest will drive the developers to make it easier to use and to have more features. For instance, we could conceivably provide students with virtual tours of the inside of nuclear reactors, of ancient Rome's marketplace on a busy day in 125 BCE, the mountains of the moon, or the human body."

This project is just one small indication of the emphasis the University is placing on new communications and instructional technologies under the new president.

Recently, the addition of 256 new modem (bringing the total to 576), 176 new Macintosh computers, 164 new IBMs, and 20 new part-time lab consultants was announced in response to student computing needs.

Throughout the University, administrators are well aware of the continuing information explosion and the continuing need to enhance funding for information services.

"The availability of computer services at all Penn State students and faculty is profoundly changing the way the University carries out its primary work of teaching and learning," **Russ Vaught**, director of CAC.

How it works

(Also see URL <http://qtv.quicktime.apple.com/How.htm>)

QuickTime VR® allows information providers to create moving "scenes" from still photographs, video stills or computer renderings. Still photographs result in the best quality images.

The photographer puts a 35mm camera with a 15mm lens on a tripod and shoots a series of pictures, turning the camera 30 degrees after each exposure. Once the individual shots are digitized, they are blended into a panoramic, 360-degree view.

If you've ever tried to piece together photographs to make a panorama, you know you can't simply put the pictures together—they don't blend smoothly.

To solve this problem, QuickTime VR warps the images. Then it automatically maps the overlapping features and stitches the images together. Warping makes the stitching possible, but it also creates distortion. Straight lines become curved—everything looks bent.

For more information on how the process works, visit the above Apple Web site.

"Faculty are expanding their office hours through e-mail, so that students have better access than ever before. Well over 200 courses use electronic bulletin boards to expand discussion outside the classroom, which is something we were never able to do before. A small but growing number of courses use the World Wide Web as an integral part of the classroom experience—again, something we've never been able to do before," Mr. Vaught said. "Technology is enabling all of this. That's why it's so valuable."

Dr. Spanier said Penn State "is a national leader in the use of information technologies in instruction, research and administration, and I am strongly committed to maintaining this position. We will need to expand our services and equipment significantly again over the summer to meet the growing anticipated demand for the 1996-97 academic year. This will be a key funding challenge for us, but it is one we must address."

You can reach Doug Stanfield by e-mail at dus9@psu.edu

Budget

continued from page 1

Spanier also emphasized that the Ridge proposal provides for:

- "No increase whatsoever for Penn State's educational and general appropriation, which supports the University's teaching, research and service efforts. In other words, a freeze."

- An increase of \$762,000 or 2 percent for agricultural research and extension activities. (Penn State had requested an increase of \$4.3 million for these activities.)

- No aid in meeting the mandated rate increase in the state retirement system.

Dr. Spanier said that Penn State will do its part to operate as efficiently as it can while trying to sustain its forward momentum. But he pointed out that since 1991-92, Penn State's appropriation has declined in purchasing power by more than 5 percent or nearly \$14 million.

"The governor's proposal doesn't help us achieve our goals of making our large classes smaller, keeping our tuition increases to a minimal level, adding critically needed library resources and catching up on deferred maintenance projects that have already been put off for too long," Dr. Spanier said. "It could also derail special priorities in undergraduate education, graduate education and the biological sciences."

In addition to the special line-item requests for telecommunications program improvements and retirement system contributions, the four-part budget plan the trustees approved last fall includes requests for:

- an increase of \$10.6 million (4.95 percent) for educational and general budget expenses;

- an increase of \$529,000 (4.95 percent) for The Hershey Medical Center;

- an increase of \$639,000 (4.95 percent) for the Pennsylvania College of Technology; and

- an increase of \$4.3 million (11.4 percent) for agricultural research and extension operations (Intercom, Sept. 21, 1995).

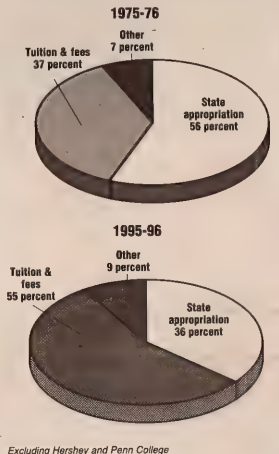
While the University has received appropriations increases in recent years in the form of Tuition Challenge Grants, which allocated about \$7.5 million to Penn State in 1995-96 for agreeing to hold tuition increases to 4.5 percent for in-state students, its agricultural extension programs have not received an appropriation increase in the last four years and its agricultural research programs have not received an increase in the last six years.

Penn State's 1996-97 appropriations request included internal budget reductions of \$6.1 million. The University is now in the third and last year of the three-year Future Committee process, which over the period has made more than \$31 million in internal budget reductions and has used 75 percent of those funds for carefully chosen reinvestments in critical areas.

The administration has also announced a new five-year budget reduction and reallocation process that will take effect in the 1997-98 budget year.

The \$4.5 million item for telecommunications

**General Funds Income
1975-76 vs. 1995-96**



Internal Budget Reductions

1992-93	\$6,425,000
1993-94	9,003,000
1994-95	10,552,000
1995-96	11,270,000
Total	\$37,250,000

program needs, part of Penn State's appropriation request for the last two years, is intended to provide urgently needed increases in telecommunications staff, support cabling needs University-wide, and improve and expand the University's use of interactive video technology.

These funds are considered necessary to complement the \$15.8 million capital project to expand and improve the University's telecommunications infrastructure, which was approved by the Legislature in 1994 as part of the Commonwealth's 1994-95 capital appropriation bill.

■ From the president

Budget numbers disappoint Spanier

Gov. Tom Ridge's 1996-97 budget proposal for The Commonwealth of Pennsylvania outlines a challenging fiscal situation for all state-related programs, including The Pennsylvania State University. Penn State pledges to do its part to continue to operate in the most efficient manner possible while at the same time seeking to sustain the positive momentum we have.

I am compelled to observe, however, that the governor's budget would weaken Penn State and erode much of our recent progress. Although mindful of the difficult financial situation facing the Commonwealth, my colleagues at Temple, Pitt, Lincoln, the State System of Higher Education and I are united in our commitment to advancing the support of public higher education in Pennsylvania.

The governor has proposed a freeze in the appropriation that supports the basic educational mission of Penn State. Even the most efficiently managed university needs a modest increase to offset the impact of inflation and to meet its many obligations, including mandated increases in retirement benefits and regulatory compliance. Adjusted for inflation, Penn State is faced with yet another profound budget cut.

We are nevertheless grateful that in a difficult year for the Commonwealth the governor has proposed a modest increase for our programs in Cooperative Extension, agricultural research and for a statewide initiative in information technology. We will join with the governor in promoting these initiatives, albeit at the higher levels we initially proposed in our budget request.

I regret that the Commonwealth finds itself in this situation, but I am also terribly disappointed that the governor has proposed for us another year in which Penn State could be forced to curtail its great promise, defer critically important needs, and widen the affordability gap that already exists for our students.

In the coming weeks I will continue to make the strongest case possible to the Legislature for additional support for our 1996-97 budget. Penn State has much to contribute to the future of this state, and I intend to make the strongest case possible that funds entrusted to Penn State to support our missions of teaching, research and outreach represent an exceptionally good investment by the people of the Commonwealth.

Graham Spanier

President Graham Spanier

The ARTS

AT PENN STATE

Dixieland band to perform at Behrend

The All-American Dixieland Band will perform at Penn State Erie, The Behrend College tonight at 8:30. The band will make an appearance at Bruno's, the college's non-alcoholic on-campus nightclub, in the Reed Union Building. The performance is free to the public.

The All-American Dixieland Band plays well known favorites such as "Sweet Georgia Brown," "Alabama Jubilee" and "When the Saints go Marching In."

The band's appearance is part of the Penn State-Behrend Cultural and Performing Arts Series. For more information, contact the Office of Student Activities at (814) 898-6171.

"Annie" coming

"Annie" will be performed at 8 p.m. Friday and Saturday, Feb. 16 and 17, and 3 p.m. Saturday, Feb. 17, in Eisenhower Auditorium on the University Park Campus.

"Annie" called America's happiest musical, warms the hearts of young and old with songs like "Tomorrow" and "You're Never Fully Dressed Without A Smile." The musical won seven Tony awards, including Best Musical.

Tickets are \$31, \$26 and \$23 for non-students; \$27, \$22 and \$19 for students. For ticket information, contact the Arts Ticket Center, open Monday through Saturday, at (814) 863-0255. Outside the local calling area, phone (800)ARTS-TIX.

Essence of Joy concert

Essence of Joy, a choral ensemble in the College of Arts and Architecture School of Music, will present its annual program, "A Celebration of African

American Spirituals," at 4 p.m. Sunday, Feb. 18, in the School of Music Recital Hall on the University Park Campus.

The program will feature traditional and contemporary arrangements of spirituals. Norman Spivey, assistant professor of voice, will perform traditional spirituals for solo voice.

Tony Leach, instructor in music/music education, is the director of Essence of Joy. The group was founded in 1991 to present music at the annual Martin Luther King Jr. banquet sponsored by The Forum On Black Affairs. Essence of Joy has performed at many musical and social events at Penn State and in the local community. Admission is \$4 for adults; \$2 for students.

Odyssey Through Literature on WPSU

This week's Odyssey Through Literature focuses on the poetry of Robin Becker of the English department. Reading and discussing her latest works from *All American Girl* with host Leonard Rubinstein, Ms. Becker explains the meaning behind her very personal, dramatic poetry. Her poems, says Mr. Rubinstein, are mischievous, ironic, and pitiless. She employs a writing style that gives the reader a slice of "irony turned tragedy," creating a dramatic shift in the flow of the narrative that is similar to the flow of life itself.

They also address the fact that many of her poems describe lesbian love. Her message is simply explained: that love transcends all hatreds.

Odyssey Through Literature is produced at WPSX-TV as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM.



"Tomorrow" — and the day after

The musical "Annie" will travel to the University Park Campus for performances in Eisenhower Auditorium on Feb. 16 and 17. For information or tickets, call (814) 863-0255.

Bassoon recital

Daryl Durran, associate professor of bassoon, will present a recital at 8 p.m. Monday, Feb. 19, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Performing with him will be School of Music faculty members pianist Marylene Dosse, tenor Richard Kennedy, and flutist Eleanor Duncan Armstrong. Also performing will be Katherine Jones and Matthew Schell, members of the Penn State Bassoon Studio.

Mr. Durran is a member of The Pennsylvania Quintet and is principal bassoonist of the Pennsylvania Centre Chamber Orchestra and the Music at Penn's Woods Music Festival Orchestra. The recital is free to the public.

Bach's Lunch

The Penn State Horn Ensemble, under the direction of Lisa Bontrager, associate professor in the School of Music, will perform for the Bach's Lunch concert series at 12:10 p.m. Thursday, Feb. 22, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture

School of Music and the University Lutheran Parish.

The Horn Ensemble consists of 15 students, most of whom are horn majors in the School of Music. The audience may take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided.

The concert is free to the public.

"Spoon River Anthology" at Berks Campus

A benefit performance of Edgar Lee Masters' "Spoon River Anthology" by Shoestring Productions will be given at 8 p.m. Saturday, March 9, in the Perkins Student Center Theatre at the Penn State Berks Campus.

"Spoon River Anthology" is a poignant, poetic and haunting piece of Americana that consists of poetic monologues, epitaphs and folk music. Attendees can choose either dinner theatre or show/reception tickets for the event sponsored by the Fine Arts Council, a community/campus organization whose purpose is to develop, maintain and fund varied arts programs at the campus for the community. Funds raised through the event will benefit council projects in 1996-97.

For ticket information, contact Jeff Deitch at (610) 320-4889.

Promotions

Staff

William J. Rotella, director, Human Resources, at The Hershey Medical Center.

Mark C. Saussure, network coordinator in College of Engineering.

Stephen R. Seife, lead applications programmer/analyst in Office of Human Resources.

Stephen A. Shala, office information specialist in College of Agricultural Sciences.

Diane D. Shorter, staff assistant VI at Penn State Delaware County Campus.

Douglas W. Slawfield, network specialist/writer/editor in Office of University Relations.

Stephen J. Strail, advanced engineering aide in Applied Research Lab.

Jolaine A. Teyssier, HRO/dual career coordinator in Office of Human Resources.

James N. Tomlinson, research engineer in College of Engineering.

Martha Travers, staff assistant IX in College of Earth and Mineral Sciences.

Joey M. Tumino, staff assistant VI in Office of Human Resources.

Mariene E. Van Kooten, clinical head nurse at The Hershey Medical Center.

Leonard M. White, maintenance foreman in Housing and Food Services.

Christelle E. Wright, staff assistant VII in College of Agricultural Sciences.

Technical Service

Barry S. Coder, equipment and locker room attendant in Intercollegiate Athletics.

Matthew A. Fields, heating and ventilating technician in Office of Physical Plant.

Christopher J. Furst, maintenance worker general A at Penn State Berks Campus.

Robert A. Gillespie, food preparer B in Housing and Food Services.

Fern I. Gruber, anesthesia workroom attendant at The Hershey Medical Center.

George H. Horley, maintenance mechanic utility at Penn State Harrisburg.

Ricky T. Kasubick, boiler operator in Office of Physical Plant.

Douglas S. Keith, electrician, Maintenance, in Office of Physical Plant.

Daniel W. Lehner, electrician, Maintenance, in Office of Physical Plant.

Michael J. Roth, group leader landscape/tree surgeon at Penn State Harrisburg.

John E. Saxman, building services clerk in College of Engineering.

Cyrus S. Shaffer, dining hall worker A in Housing and Food Services.

Corrine C. Shuman, central processing aide at The Hershey Medical Center.

Carol A. Young, janitorial worker in Office of Physical Plant.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, February 15

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Essence of Joy. Center for Academic Computing, 1-3 p.m., Studio D, Mitchell Bldg. PBS teleconference "Communicating Electronically: New Methods for Publishing, Sharing and Distributing Information."

Hillel, 6:30 p.m., Palmer Lipson Auditorium. Film: "The Wooden Gun."

Gallery Talk, 7 p.m., Christoffers Lobby, Palmer Museum. Kathryn McIntocin on "Collecting Medieval Art in America."

Friday, February 16

The 24th Annual Dance Marathon kicks off in the White Bldg., and continues through Feb. 18.

Office for Minority Faculty Development Workshop, 3 p.m., 114 Kern. James Stewart on "Vital Development."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Annie." Also, Feb. 17. For tickets, call (814) 863-0255.

University Resident Theatre Company, 8 p.m., Pavilion Theatre. "Our Town" through Feb. 24. For tickets, call (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Timothy Shafer, piano.

WPXI-TV, 10 p.m. Broadcast of "We Are the Dream," original presentation by Charles Dumas performed in Eisenhower Auditorium on Martin Luther King Jr. Day.

Saturday, February 17

■ Film, 2 p.m., Palmer Lipson Auditorium. "Europe in the Middle Ages: Byzantium — From Splendor to Ruin."

English, 6:30 p.m., Classroom Auditorium. Susan Bordo on "Can A Woman Harass A Man? Toward a Cultural Understanding of Bodies and Power." Lecture is part of the "Gender & Resistance Conference."

Sunday, February 18

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "Baroque Art at the Palmer Museum."

Art History, 2 p.m., Palmer Lipson Auditorium. Edson Arm on "The Rise and Fall of Romanesque Studies in America."

School of Music, 4 p.m., Recital Hall. Essence of Joy. For tickets, call (814) 865-0431.

Monday, February 19

School of Music, 8 p.m., Recital Hall. Daryl Durran, bassoon.

Tuesday, February 20

Penn State Catholic Faculty and Staff Fellowship Group, noon, 212 Eisenhower Chapel. Mike Morse on "Ten Maxims for More Active Involvement in the Church."

Communications, 5 p.m., Carnegie Cinema. Stephen C. Miller on "Diversity in Cyberspace: Is Cyberspace Colorful Enough?" Reception to follow in Carnegie Lobby — Celebrating Black History Month.

Thursday, February 22

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Horn Ensemble.

Malcolm X Lecture, 7:30 p.m., Paul Robeson Cultural Center. Sonia Sanchez, speaker.

Raymond A. Bower's Program for Excellence in Design and Construction of the Built Environment, 7:30 p.m., 112 Walker Bldg. Raymond A. Bower's Seminar presentation with John Lyle.

HUB "Distinctive Styles," 8 p.m., HUB Fishbowl. "Appalachian Spring," folk and classical styles.



Coming soon

"The Who's Tommy" will be performed at 8 p.m. March 12 and 13, in Eisenhower Auditorium on the University Park Campus. For ticket information, call (814) 863-0255.

Friday, February 23

School of Music, 7:30 p.m., Eisenhower Auditorium. "Mountain Laurels," a choral symphony to celebrate the State College centennial. Through Feb. 25. For tickets call (814) 863-0255.

Saturday, February 24

Film, 2 p.m., Palmer Lipson Auditorium. "Cathedral."

Art Education, 3:30 p.m., 12 Sparks Bldg. June King McFee will speak on "The Future Direction of Art Education."

School of Music, 4:30 p.m., Recital Hall. Robert Hatten, faculty lecture recital, and Kim Cook, cello.

Sunday, February 25

School of Music, 8 p.m., Recital Hall. Dan Yoder, saxophone.

SEMINARS

Thursday, February 15

Sigma Xi, noon, 305 HUB. Karl Newell on "The Dynamics of Movement Forms."

Physics, 3:30 p.m., 101 Osmond Lab. Gregory Tarle on "Probing the Antimatter Content of Our Galaxy."

Distinguished Cognitive Speaker Series, 4 p.m., 101 Kern. Christopher Wickens on "Frames of Reference in Navigation."

Friday, February 16

Physics, 11 a.m., 339 Davey Lab. Gregory Tarle on "The Cosmologically Significant Matter Oscillation Search: COSMOS/EROS."

Physics, 2:30 p.m., S5 Osmond Lab. Leonid Zhigilev on "The Structure of Amorphous Metals: Discrimination Model and Molecular Dynamics Simulation."

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Daniel T. Lichter on "Child Poverty, Spatial Inequality, and Welfare Reform."

Saturday, February 17

Frontiers of Science, 11 a.m., 104 Classroom Bldg. Alex Wolszcan on "Where in the Universe are Other Planets That Could Support Life?"

Sunday, February 18

Archaeological Institute of America, 4 p.m., 101 Kern Bldg. Kenneth Hirth on "In Search of Aztec Origins."

Monday, February 19

Comparative Literature, 12:15 p.m., 101 Kern. Carole Ann Costabile-Heming on

"Censorship & Literary Production in East Germany."

Physics, 2:30 p.m., 339 Davey Lab. Leon Balents on "Nonequilibrium Ordering and Current Oscillations in Driven Charge Density Wave Conductors."

Tuesday, February 20

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Levi T. Thompson on "The Design and Synthesis of Nitride and Carbide Catalysts."

Frontiers of Science, noon, 118 Willard Bldg. Franz Foltz on "The Rise and Fall of Global Climate Change Research."

Geosciences, 3:30 p.m., 112 Walker Bldg. Kim Nelson on "Molecular Phylogeny."

Physics, 3:30 p.m., 339 Davey Lab. Philip Argres on "Electric-Magnetic Duality and Four Dimensional Conformal Field Theories."

Biology, 4 p.m., 8 Mueller Lab. David A. Grantz on "Physiological Impacts of Ozone on Pima Cotton: Below Ground."

Food Science, 4 p.m., 117 Borland Lab. "Information Search in Food Science," a panel discussion led by Tor Nordmark.

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Jeff Volek on "Creatine Supplementation: Its Effect on Human Muscular Performance and Body Composition."

Wednesday, February 21

Adult, Continuing & Distance Education, 11:45 a.m., 502 Keller Bldg. Susan B. Shuman and Dan W. Kennedy on "What Can Marketing Research do for You?"

Gerontology, 12:15 p.m., 101 H&H East. Linda Buehler on "A Therapeutic Intervention for the Nursing Home Resident with Dementia: National Alzheimer's Association Pilot Research Project."

Thursday, February 22

Physics, 3:30 p.m., 101 Osmond Lab. Edward Seidel on "Solving Einstein's Equations on Supercomputers: Colliding Black Holes and Gravitational Waves."

Computer Science and Engineering, 4 p.m., 302 Pond Bldg. Bruce Draper on "Learning Object Recognition Strategies."

History, 4 p.m., 102 Weaver Bldg. Sander Gilman on "You Are What You Eat: Ritual Murder and Ritual Slaughter at the Turn of the Century."

Friday, February 23

Physics, 11:15 a.m., 339 Davey Lab. Shyamoli Chaudhuri on "Duality, Fields and Strings." Also, at 2:30 p.m., S5 Osmond Lab. Joudi Rivlin on "Spectroscopic Studies of Nearly Free Internal Rotation."

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. C. Gregory Knight on "The World Map of Precipitation Variability."

Saturday, February 24

Frontiers of Science, 11 a.m., 104 Classroom Bldg. Alex Wolszcan on "Latest Results in the Search for Planets Outside the Solar System."

CONFERENCES

Friday, February 16

Gender & Resistance Conference. Through Feb. 18. For information, call Susan Squier at (814) 863-9552.

Monday, February 19

Divorcing Parents. Call (814) 863-0471 for information.

Data Networking Short Courses: Communications Cabling. The Penn State Scanticon. Through Feb. 23.

Sunday, February 25

Best Practices in Computer Conferencing. The Penn State Scanticon. Through Feb. 26.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m. "Performance Today," Mon.-Fri., 8-10 p.m. "All Things Considered," Sat.-Sun., 4-7 p.m. "Sat. & Sun. 5-6 p.m."

"Weekend Edition," Sat. & Sun., 8-10 a.m. "Fresh Air with Terry Gross," Mon.-Fri., 7-8 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein," Sun., 6:30 p.m.

"Car Talk," Sat. 10 a.m. and 11 a.m., 4 p.m. "The Thistle & Shamrock," Sun., 3 p.m. "Piano Jazz with Marion McPartland," Mon., 10 p.m.

"Libri," Sun., 6 p.m.

EXHIBITS

HUB

Formal Art Gallery:

Bill Hutson's "Image To Object," through Feb. 25.

Browsing Gallery:

Evellina Francis' fiber sculptures, through March 17.

Kern Exhibition Area

Kern Panels:

Teri Karpovich photography, through Feb. 21.

Palmer Museum

"Medieval Art in America: Patterns of Collecting 1800-1940," through March 3.

Palthe

Lending Services Gallery:

"Reveries of Fire and Water," an exhibition of oil paintings by Kay Picart. Through Feb. 29.

Paul Robeson Cultural Center

■ "Africa and the Diaspora. Personal Collections," exhibition of African, African-American, Haitian and Brazilian art and artifacts. Through Feb. 23.

Ritenour Lobby:

Eric Cho prints, printmaking. Through Feb. 28.

Zoller Gallery:

Undergraduate Juried Exhibition, Feb. 22 through March 24.

■ Reflects an international perspective

PLAN FOR THE COMMONWEALTH

Extensive study leads to alterations in st

Redesign

continued from page 1

the University administration's response to the CES "plan for planning" process that began in October, through which the campuses and other locations were asked to study their current missions and identify which of three or four administration-recommended options would best meet the needs of the communities they serve (*Intercom*, Oct. 26, 1995).

The draft plan, now being reviewed by a special committee of the University Faculty Senate and other groups, will be revised this month and then returned to the campuses for a monthlong review, with responses due in early April. It is the result of serious discussion over the past several weeks by Graham B. Spanier, University president; John A. Brighton, executive vice president and provost; and Robert E. Dunham, senior vice president and dean for CES.

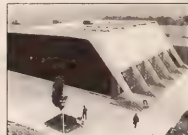
Through February, the plan will be reviewed by the University Planning Council, the President's Council, the Council of Academic Deans and a University Faculty Senate select committee. By the end of February the plan will have been fine-tuned and sent back to the campuses for another review. At that point the campuses will essentially have the month of March to review the fine-tuned plan. They will be asked to develop campus plans that address enrollments, degree offerings and budgets by April 4.

Between April and June the plans will be further refined through an extended consultation process in preparation for submission to the Board of Trustees at its July meeting.

"Our overarching goal in developing our response," said Dr. Spanier, "has been to look at the big picture and to redesign Penn State in a way that's best for meeting the Commonwealth's needs for higher education and that's also best for the University itself. Among other things, we tried to respond to the needs we perceive for more four-year programs at the campuses, for



Berks is pondering the four-year option.



Worthington Scranton will be joining 11 other CES locations to form the Commonwealth College.

More information coming

Dr. Spanier will hold an interactive satellite teleconference with all campuses at 1 p.m. Thursday, Feb. 22. Please contact your campus executive officer or dean for information on where the teleconference will be aired.

You may also look for a draft copy of the Plan for the Commonwealth on the University Relation's Home Page on the World Wide Web at <http://www.pubinfo.oud.psu.edu>. Click on the "CES Planning" button.

If you have specific questions about the plan, please e-mail them to kev1@psu.edu

the ability to respond more speedily to community needs and for more autonomy to campuses."

Dr. Spanier said he hopes "everyone involved will carefully examine and ultimately support our proposals—the faculty, the colleges and the deans, the campuses, the students, the communities around the campuses, as well as state government. We're seriously looking for feedback that will help make the University better."

Under the proposed reorganization, current CES faculty will become part of a new college: either a new, stand-alone four-year college, the proposed two-campus Capital College, the Graduate College at Great Valley or the new 12-campus Commonwealth College. While the plan says that all current and new faculty positions, related budgets and future tenure and promotion considerations will be associated with one of the new colleges, it emphasizes that all faculty may continue to be identified with a University-wide department or program, even though they have a different collegiate "home."

Dr. Brighton: "We will be encouraging all faculty, no matter what their 'home base' may be, to maintain and to strengthen their ties with their colleagues in other parts of the University. Although we expect to have different structures in place, Penn State will con-

tinue to be 'one University, geographically dispersed,' and we'll encourage faculty members to identify with the department of their disciplines."

The plan anticipates that all campuses will remain in operation. It sets five-year enrollment targets for each. Overall, it also encourages the campuses to develop upper-division baccalaureate programs, increase outreach efforts through continuing education and work cooperatively with and/or establish alliances or consortiums with other Penn State campuses in the same region. (See box, "The Commonwealth College.")

"Not only are there no plans for closing any campuses, we expect enrollment growth and program growth at every campus," said Dr. Dunham. "And where there's program growth, we expect to see the hiring of new faculty to deliver those programs. Adminis-

tration will be working very cooperatively together," she added.

Penn State Berks is still under evaluation as a stand-alone four-year college. Frederick Gaige, CEO at Berks, said, "Of course, we are all very hopeful that Berks will become a four-year college."

The current uncertainty hasn't, however, diminished Dr. Gaige's enthusiasm for the plan.

WHAT WILL PENN STATE LOOK LIKE?

Location	Proposed mission
Abington-Ogontz	Four-year college
Allentown	Expanded mission-merge with Berks
Altoona	Four-year College
Beaver	Commonwealth College-expanded mission
Berks	Expanded mission-delay decision
Delaware County	Commonwealth College-expanded mission
DuBois	Commonwealth College-expanded mission
Erie	Present mission-expanded enrollment
Fayette	Commonwealth College-expanded mission
Great Valley	Present mission-expanded enrollment
Harrisburg	Present mission-expanded enrollment
Hazleton	Commonwealth College-expanded mission
McKeesport	Commonwealth College-expanded mission
Mont Alto	Commonwealth College-expanded mission
New Kensington	Commonwealth College-expanded mission
Schuylkill	Part of Capital College-expanded mission
Shenango	Commonwealth College-expanded mission
Wilkes Barre	Commonwealth College-expanded mission
Worthington Scranton	Commonwealth College-expanded mission
York	Commonwealth College-expanded mission

TOTAL ENROLLMENT

*Head count

REACTION

CEOs respond to the plan

Reactions from campus administrators to the Plan for the Commonwealth, which includes a Commonwealth College consisting of 12 campuses that are now part of the Commonwealth Educational System, all focused on the flexibility of the proposal.

"This new initiative puts our destiny more in our own hands by helping us be more responsive to local needs," Joseph Strasser, campus executive officer at Penn State DuBois, said. "Our recent planning effort showed great interest in DuBois being able to offer baccalaureate programs. This will certainly help us to do that."

Edward S. J. Tomeski, CEO for Penn State Delaware County, agreed and said the plan would not only establish a way for campuses to respond to regional

"Dr. Spanier... the internal... to enable Penn State distinguished... local needs are... I think Berks... campuses have... and Allentown... ture that we can... Among the... the frontier... tion."

"The break... change the me... ment with dis... breakthroughs... tion and learn... Karen Wil... has received th...

Structure of Penn State system

THE COMMONWEALTH COLLEGE

How will it operate?

The 12 campuses of the new Commonwealth College will have a broad collective mandate, as outlined in the points below:

- Each campus will have as its primary mission lower division undergraduate education.
- Most campuses will have an array of associate degree offerings.
- Each campus is expected to greatly expand its offerings in continuing and distance education.
- Those campuses currently offering baccalaureate offerings will continue to do so.

■ All of the campuses will be expected to develop a selected number of four-year baccalaureate degree offerings. These baccalaureate offerings will in some cases be disciplinary based degrees that parallel those found at University Park. Most of the new baccalaureate offerings, however, will be general bachelor's

degrees developed in cooperation with the Dean in University Park colleges. Each dean at University Park has been encouraged to provide guidance on general degrees associated with their disciplines (e.g. degrees in business administration, health and human development, agricultural sciences).

■ The Dean of the Commonwealth College may authorize selected campuses to develop graduate programs in association with the Dean of the Graduate School.

■ Campuses of the Commonwealth College with regional ties to each other will be strongly encouraged to form closer programmatic and operational ties to each other, including formal alliances, shared programs, jointly appointed faculty, joint use of facilities and shared students. This will be especially important to Penn State's four campuses in the Greater Pittsburgh area, Penn State's campuses in the Philadelphia region, Penn State's campuses in the Scranton/Wilkes-Barre and Hazleton area and the Penn State's campuses near Harrisburg and Reading.



Projections call for minimal growth at the University Park Campus.

Enrollment target*	Enrollment* Fall 1995
3,500	3,212
800	624
3,500	2,919
1,000	862
3,000 (incl. Allentown)	1,771
1,800	1,540
1,000	920
3,500	3,208
1,200	994
1,800	1,448
5,200 (incl. Schuylkill)	3,510
1,500	1,316
1,000	878
1,300	1,261
1,200	983
1,200	1,041
1,200	1,005
1,000	800
1,500	1,325
2,500	2,106
TARGET, FALL 2001*	36,700

streamlining throughout the system should lead to savings. But we expect that any reduction in administrative staff would come about over time — through attrition and not through layoffs. Throughout its history, Penn State has fulfilled its mission to serve the entire state through its Commonwealth college system. But now, said Dr. Spanier, "changing demographics" and "changing needs of the Commonwealth have prompted Penn State to revisit the mission of each of its campuses and to work broadly with faculty, staff, students, members of the campus advisory boards and with local communities about the future of each Penn State campus."

Dr. Dunham and Dr. Brighton working together with external constituencies have come up with something that is to become, at the same time, an internationally recognized university while also remaining responsive to the state," Dr. Gaige said. "The merger with Allentown is a great idea. Most of the distance away from formal linkages. However, Berks is close enough together and similar enough in culture to some interesting things together." "Interesting things that Dr. Gaige sees ahead is being on the leading the telecommunications revolution to educating in communication have the potential to be of learning," he said. "It will be exciting to explore new education techniques and to see what kinds of things can come up with to strengthen both administration and teaching. CEO for Abington-Ogontz, a campus which is expected to become a four-year college in the Penn

State system, said she is "delighted to have this confirmation" of what Abington-Ogontz's recent self-study showed.

Every year, about 150 students who are eligible to transfer to University Park leave the Penn State system to go to another institution in order to stay in the Philadelphia region. Over and over again, our external constituents had told us that this was what we needed to do to answer their needs," she said. "Under this plan, a lot of students who formerly did not have a choice to remain at Penn State now have that choice."

In the Pittsburgh region, CEO Catherine Gannon, Penn State New Kensington, reiterated the idea of rapid response to student needs.

"It seems to me that one of the extremely positive factors of the Commonwealth College concept will be the ability to quickly respond and to calibrate programs to match the region, which was a major thread in our planning process," she said. "It gives campuses a definitive voice and I think it really will help pull the Commonwealth together by removing barriers."

GROWTH AT PENN STATE

■ Penn State as a whole is projected to increase its enrollment 5 percent to 8 percent over the next five years with opportunities for growth at all campuses.

■ The single largest area of growth at Penn State will be in Distance and Continuing Education, including University Park and the other campuses of the University.

All baccalaureate degree programs offered in the Penn State Colleges and at the Commonwealth College campuses are expected to have an enrollment of at least 100 at that location within five years.

■ Penn State's second largest area of growth is anticipated to be in resident instruction at campuses other than University Park.

■ Minimal growth at the University Park campus is projected; what modest growth does occur there would be targeted to meet specified enrollment objectives (e.g. honors students, international undergraduates and graduate students in selected programs).

■ All colleges and campuses of the Commonwealth College are encouraged to conduct market research to identify a limited number of upper division programs to offer.

■ All baccalaureate degree programs offered in the Penn State Colleges and at the Commonwealth College campuses are expected to have an enrollment of at least 100 at that location within five years.

■ The academic colleges at University Park will work with the new Penn State colleges to develop general baccalaureate degree programs.

■ All curricular changes in the new colleges will be reviewed and approved by the University Faculty Senate.

■ Each campus is expected to maintain, but not increase, the number of upper-division students it now sends to University Park.

■ Each of the Penn State colleges and all of the campuses in the Commonwealth College are expected to greatly expand educational offerings through Continuing and Distance Education. (See story on page 8).

PLAN FOR THE COMMONWEALTH

Those faculty previously tenured through a University Park-based college may choose to retain such an identification. Moreover, while current CES faculty and those hired in the future will be most directly associated with their new college, University Park-based faculty and deans will be strongly encouraged to maintain all possible professional ties to their colleagues throughout the Commonwealth. Thus, the concept of one University-wide faculty will be preserved. Academic identification with the department of one's discipline will continue to be encouraged. New faculty hired on or after July 1, 1997, regardless of location, College or budgetary home should also be identified with their disciplinary colleagues wherever possible. Faculty at the Great Valley Graduate Center, as is presently the case, will continue to have their appointments, promotions and tenure decisions in their respective University Park colleges.

— Excerpt from the
Plan for the Commonwealth

REACTION

Deans respond to the plan

New opportunities for collaboration, answering the special needs of constituencies, and lower administrative costs by streamlining promotion and tenure procedures are just some of the benefits enumerated by deans about the proposed Plan for the Commonwealth.

The restructuring of the campuses and colleges under the new Plan for the Commonwealth will not alter the expectations of faculty members in their involvement in scholarship and research. The plan notes, "The commitment of all segments of the University to quality teaching enhanced through scholarship remains firm."

However, the promotion and tenure process for CES faculty members could become significantly streamlined as a result of the reorganization.

Susan Welch, dean of the College of the Liberal Arts, said, "Just in our college, the promotion and tenure process and other CES personnel processes take one full-time staff member and significant blocks of time and attention of several other senior administrators. All of this activity, much of which currently duplicates work already done on the campuses, considerably complicates the process and adds to the administrative costs of the University."

The changes proposed in the Plan for the Commonwealth will realign the personnel processes and the promotion and tenure decisions with the locus of the faculty member's hiring and budgetary unit, she noted.

"We will be able to reduce some layers of bureaucracy at University Park and that will allow us to spend more time on other issues—including pedagogical issues and curriculum," she said.

Curriculum, Dean Welch emphasized, will continue to be discussed from the University-wide perspective. Gregory L. Geoffrey, dean of the Eberly College of Science, said his college will continue to have yearly meetings to which all Penn State faculty members in a discipline will be invited.

"It's essential to involve all faculty members in a discipline in course content discussions, especially discussion about the first two curricular years," he said.

Creating new four-year baccalaureate degree course curricula, that in some cases parallel those at University Park, will offer CES faculty new opportunities.

"The reorganization plan increases faculty members' ability to respond to special needs in local communities," David Wormley, dean of the College of Engineering, said. Curricula may vary at different locations but all baccalaureate degree programs and course offerings will be "Penn State quality" adapted to the specific needs of a region.

"We will continue to have very close contacts with all engineering faculty members around the Commonwealth as we work together to respond to local needs," Dr. Wormley said.

On the local needs issue, Barbara Shannon, dean of the College of Health and Human Development, echoed the other deans in emphasizing that she expected continued contact among individuals within disciplines.

"We certainly would encourage that," she said. "Even though they'll be in different colleges, the commonality of their disciplines will draw them together."

Dr. Shannon expressed enthusiasm for the new plan and said that for students, access to degree programs closer to their homes will make it easier for those that are location-bound to complete a degree program.

"I think there are many potential benefits to be accrued, both by University Park and the campuses, under these new proposals," Dr. Shannon said. "I sense a lot of excitement about it. Without a doubt, as we work through the details of implementing it, we'll face many challenges, but I certainly sense a very positive feeling among the campus CEOs and the deans."



CONTINUING AND DISTANCE EDUCATION

Distance learning expected to flourish under plan

The plan envisions a greatly expanded role for Continuing and Distance Education as the new Penn State college system takes effect.

"I am enthusiastic about the proposed changes, and I can see that the new model will enormously enhance Penn State's responsiveness to educational needs,"

James Ryan, vice president for Continuing and Distance Education, said. "The proposed changes put high priority on refocusing campus offerings to meet community needs and interests."

Dr. Ryan said that the Office of Continuing and Distance Education can help campuses identify community needs and interpret how they may be met through educational programs. C&DE can also provide support to faculty who are developing new educational programs to meet local, regional and statewide needs.

C&DE supports six key functions: Faculty development to prepare faculty to teach in a distance environment; instructional design to develop educational materials, often in cooperation with WPSX-TV and the Center for Academic Computing; student services, especially in connection with students in international settings; Independent Learning Programs for associate degrees and certificates, some with tutorial and problem-solving sessions; Contract Outreach Programs, often interactive certificate and professional degree programs delivered to work sites and other institutions by satellite teleconferencing; and research in partnership with the College of Education. It also supports client development, market research, marketing communications and program planning.

"I can imagine that a good many of the new programs may be delivered by distance education from one end of the state to another. The proposed changes will enable us to use all the resources of the University to offer a particular program in a particular location where it is needed," he said.

"The proposed changes put high priority on refocusing campus offerings to meet community needs and interests."

James Ryan
vice president
Continuing and Distance Education

Faculty/Staff Alerts

24th Annual Dance Marathon

The 24th annual Dance Marathon to benefit the Four Diamonds Fund at The Hershey Medical Center will kick off Feb. 16 in the White Building on the University Park Campus and continue through Feb. 18. About 566 dancers are registered to participate in the Thon, which is the largest student-run philanthropy in the country.

The theme for this year's event is "Never Standing Alone." Funds from the marathon, which for the past four years has broken the \$1 million mark in fund raising, are used to help pediatric cancer patients and their families. Funds raised by the event offer direct financial support to Four Diamonds families and also support social workers, clinical nurse specialists and child life specialists, and aid in funding pediatric cancer research. Since 1977, the year the Dance Marathon began supporting The Four Diamonds Fund, more than \$7 million has been raised.

To sponsor a dancer or make a donation to the 1996 Dance Marathon, contact 1-800-392-THON.

Upcoming HRDC courses

Several courses are being offered by the Human Resource Development Center. To see a description of each course, log-in to the *Intercom* Web site from the home page of the Office of University Relations at URL <http://www.pubinfo.oud.psu.edu>. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 85 of the HRDC course catalog.

East Asian Studies student award

The East Asian Studies Committee and the East Asian Fund for the College of the Liberal Arts is holding a competition for students working on or developing an interest in some aspect of the cultural traditions of China, Japan or Korea, including history, literature, religion, philosophy, art or art history.

tory, political science, sociology, etc. Students should submit an application for an award up to \$300. The competition is open to majors and non-majors — anyone interested in East Asian studies is eligible to apply. For more details, contact Steven Heine, chair, East Asian Studies Committee, 215 Weaver, (814) 865-3403; e-mail: shx23@psuvm.fax; (814) 863-7840.

Faculty proposals sought

The Schreyer Institute for Innovation in Learning is looking for new uses of active and collaborative learning in undergraduate classes. Faculty members have until March 15 to submit proposals for innovations to run in the spring 1997 semester. The institute hopes to fund at least 30 projects for that semester.

More than 25 institute Fellows have experimented with collaborative learning using high performance academic teams, or active learning, using realistic problems or cases in the institute's first year. They report improvements in student motivation, attendance, and intellectual performance.

Selected proposals are supported with funding for student interns to work with the faculty in designing and coordinating new learning experiences and small grants (\$750). In addition, faculty members can use instructional design consultants and team-training resources provided by the institute. Project faculty also participate in biweekly workshops and conversations that utilize PictureTel to reach the Commonwealth Campuses.

For application forms and further information, call (814) 865-8681 or e-mail ill@psu.edu.

Brown-bag wellness series

Faculty/Staff Health Promotions in the Office of Human Resources is offering a series of brown-bag wellness discussions on the University Park Campus related to various Employee Assistance Program topics. All programs are free. For more information on the individual programs and times, or to register, contact Jan Hawbaker at (814) 865-3085 or by e-mail at jqh33@psuadmn.

Faculty/Staff health promotions

The following programs are being offered this semester for University employees through Faculty/Staff Health Promotions in the Office of Human Resources:

■ **Understanding your Employee Assistance Program and EAP: The Supervisor's Role** Meets Thursday, Feb. 22, from 8:30 to 9:15 a.m. in 110 Henderson Building. No cost.

■ **HIV/AIDS: Spread Facts, Not Fear** Meets Wed., Feb. 28, from 9 a.m. to noon in 16 Ritenour Building. No cost.

■ **Healthy Thinking —WEL 082** Meets Wed., Feb. 21, from 1:30 to 2:30 p.m. in 215 Classroom Building.

■ **Conflict Resolution —WEL 085** Meets Wed., Feb. 21, from 3 to 4 p.m. in 126 Housing and Foods Building.

■ **"Cornucopia Kids" — WEL 083** Section 1 meets Tue, Feb. 20, from 11 to noon, in 221 Chambers Building. Section 2 is Wed., Feb. 21, from noon to 1 p.m., in 319 Rider Building.

■ **Managing Personal Change in a Changing Environment—WEL 084** Section 1 meets Tue, Feb. 20, from 12:30-1:30 p.m. in 189 Material Research Lab; Section 2 is Wed., Feb. 21, from 8:30-9:30 a.m. in 301 Ag. Administration.

For program descriptions, please log in to the *Intercom* Web site through the Office of University Relations at URL <http://www.pubinfo.oud.psu.edu>. For more information on these offerings, call (814) 865-3085.

25-year Awards



Observing 25 years of service at the University are, from top left, A. Daniel Frankforter, professor of history; Roland E. Larson, professor of mathematics; Loretta May, staff specialist in the School of Engineering and Engineering Technology; Donald M. McKinstry, associate professor of biology; Richard A. Wester, assistant professor of philosophy; and Anthony A. Salvia, professor of statistics, all at Penn State Erie, The Behrend College. From bottom left, Clifton R. Sarnowski, financial officer at Penn State Erie, The Behrend College; Glenn E. Cunningham, senior accountant, Controller's Office, The Hershey Medical Center; and Linda Houltz, staff assistant in the Department of Poultry Science; Elmore Hunter, extension agent and director of community relations in Philadelphia County; Nancy Wallace, senior extension agent in Westmoreland County; and Thomas Watschke, professor of turfgrass science, all in the College of Agricultural Sciences.



LECTURES

Future of art education topic of Feb. 23 lecture

June King McFee, professor emerita in the art education department of the University of Oregon, will deliver a public lecture on the future directions of art education at 3:30 p.m. Friday, Feb. 23, in room 12 Sparks Building on the University Park Campus.

Dr. McFee will be visiting the College of Arts and Architecture Art Education Program from Thursday, Feb. 22, through Sunday, Feb. 25. She will work with undergraduate and graduate students.

Dr. McFee taught in the art education program at the University of Oregon from 1965-1983. During this time, she founded the doctoral program in art education. She also was director of the Institute for Community Art Studies at the University of Oregon from 1965-1977, and before joining the faculty at Oregon, taught at Stanford and Arizona State University.

She co-authored the text *Art, Cul-*

ture and Environment, with Rogena Degge, and has written two other books. Most recently, Dr. McFee's research has focused on issues of cultural diversity as related to the teaching of art.

She is a Distinguished Fellow of the National Art Education Association and has served as the editor of *Studies in Art Education*. In addition, she has delivered a number of invited lectures and been a visiting scholar at such universities as Florida State University, Illinois State University, Concordia University in Montreal, and the College of Advanced Education in New South Wales and Victoria, Australia. Her work has been recognized by the creation of the June King McFee Award, given annually to a senior scholar in art education by the Woman's Caucus of the National Art Education Association.

The lecture is free to the public.

Romanesque studies lecture ends series on Medieval art

The College of Arts and Architecture Department of Art History will conclude its lecture series, "The Fortune of Medieval Art in America," with a lecture by Edson Armi, professor of art history at the University of California at Santa Barbara. The lecture, titled "The Rise and Fall of Romanesque Studies in America," is scheduled for 2 p.m. Sunday, Feb. 18, in the Palmer Lipson Auditorium of the Palmer Museum on the University Park Campus.

Dr. Armi taught for many years at the University of North Carolina at Chapel Hill. He is the author of *Masons and Sculptors in Romanesque Burgundy* (1983), *The Art of American*

Car Design (1988), and *The Headmaster of Chartres and the Origins of 'Gothic' Sculpture* (1994), all published by Penn State Press.

The lecture is planned in conjunction with the exhibition "Medieval Art in America: Patterns of Collecting 1800-1940," shown at the Palmer Museum through March 3. The lecture is free to the public.

The lecture series is intended to expand upon selected topics explored in the exhibition and its accompanying catalog. All lectures in the series are co-sponsored by the Institute for the Arts and Humanistic Studies and the Center for Medieval Studies.

Housing regulations focus of meeting

The ever-changing rules and regulations of the housing industry are among the many topics to be discussed on March 27-28 during the annual Pennsylvania Housing Conference at The Penn State Scenic. Nationally recognized speakers will address the latest technology and advancements in the residential housing industry.

Topics slated for discussion include: challenges facing Pennsylvania residential construction industry; the national perspective on the home

of the future; a hands-on computer-assisted design workshop for the residential builder; a discussion of the national volunteer energy efficiency initiative; current legislation affecting the residential construction industry; energy efficient homes; and computer-based cost estimating.

Exhibitors whose products are relevant to the housing industry will also be on hand.

For registration information, call Debbie Noyes, conference planner, at (814) 863-5120.

Teleconferences look at distance learning

A new series of satellite teleconferences, "Distance Learning Today," scheduled for March will provide an introduction to the principles of teaching and learning at a distance and demonstrations by college and university educators of "real-world" examples illustrating the materials presented.

The programs, presented by Minnesota Satellite & Technology and sponsored by the Department of Distance Education, Continuing and Distance Education, are free and open to all University faculty and staff. All programs will be held in Room 129 (Studio C), Mitchell Building on the University Park Campus, from 1-1:45 p.m. No pre-registration is necessary. Program schedule:

■ **March 7: Distance Learning Today: An Introduction** — Will explore the changes taking place in the global community that are affecting today's educational system. It will introduce a "flex-time, flex-place" concept, that helps break down traditional time and distance barriers. The program will also explore issues

associated with delivering education at a distance.

■ **March 14: Distance Learning Today: Methods and Mediums** — Introduces a variety of delivery methods and mediums associated with learning at a distance. Emphasis is placed on matching the needs of the learner with the delivery method.

■ **March 21: Distance Learning Today: Interactive Learning Environments** — Sharing specific examples of interactive communication, this program will cover new roles for both teachers and students in the distance education environment.

■ **March 28: Distance Learning Today: Telecourse Techniques** — This last program in the series will feature teaching strategies using one- and two-way interactive video and audio technology.

For more information, call Cindy Galbraith, staff assistant, Department of Distance Education, at (814) 863-5403.

High-tech conference to explore uses of virtual reality

"From Reality to Virtuality: New Tools for Distributed Learning," a national satellite teleconference about available information technology, will be held from 2:15 to 4 p.m. Thursday, March 21.

Sponsored by the Department of Distance Education, Continuing and Distance Education (VRML), produced by the Institute for Academic Technology, the closed-captioned teleconference will give the University community an opportunity to join the ongoing nationwide discussion on the topic; explore the use of technologies that create immersion environments, and involve students in interactive

and participatory learning experiences. A tour of virtual environments will include 3-D modeling over the World Wide Web, distributed virtual reality and multimedia simulations.

Participants will become familiar with new tools such as Virtual Reality Markup Language (VRML), available providing immediate practical use in learning environments, as well as other emerging virtual applications.

Although there is no fee, pre-registration is required. Please call Cindy Galbraith at (814) 863-5403, extension 26. You will receive location information with your registration confirmation.

Other planets are Feb. 24 lecture topic

The sixth lecture in the 1996 Penn State Lectures on Frontiers of Science, titled "Recent Discoveries of Planets Outside the Solar System," will be given on Feb. 24 by Alex Wolszczan, professor of astronomy and astrophysics.

Dr. Wolszczan will discuss the methods used by astronomers to search for extrasolar planets and the recent surprising discoveries of planets around two stars other than our Sun.



The lecture, to be held at 11 a.m. in Room 104 Classroom Building, is sponsored by the Eberly College of Science.

Parking is available at the HUB Deck parking garage on Shortridge Road.

For more information, contact the Penn State Eberly College of Science Office of Public Information by telephone at (814) 863-8453 or (814) 863-4682, or by e-mail at science@psu.edu.

EMPLOYEE BENEFITS

A regular column provided by
the Office of Human Resources

Tax-deferred annuity reminder

Faculty and staff are reminded that five companies are authorized to offer tax-deferred annuities (TDAs) at Penn State. Those companies and the approximate number of investment options that each provides are: Equitable (15); Fidelity Investments (75+); TIAA-CREF (8); VALIC (16); and Vanguard Group (50).

TDAs provide an excellent opportunity to help individuals save for the future, while sheltering some of their income from current federal income taxes. Taxes are deferred until the money is withdrawn, usually at a more favorable tax rate.

Contributions to tax deferred annuities are made through payroll deductions, and a minimum contribution of \$25 per month or \$12 per biweekly pay is required. Contributions also may be expressed as a percentage of gross pay rather than a fixed dollar amount.

Because of the tax advantages of TDAs, the IRS limits the total amount that may be contributed each year.

For more information about TDAs, your eligibility to participate, IRS regulations or changes in TDAs, contact the Employee Benefits Division at (814) 865-1473 or e-mail benef@psuadmn.

Dean of International Programs sought

A search committee, chaired by Rodney A. Erickson, dean of the Graduate School, has been appointed to identify candidates for the position of dean of International Programs.

The dean of International Programs is responsible for the University's international activities and programs and will provide leadership in initiating and responding to international opportunities and obligations in an increasingly interdependent global community.

The dean is administratively responsible for Education Abroad Programs, international students and international cooperative programs. The dean will report to the executive vice president and provost of the University.

Candidates should have a record of scholarly achievement commensurate with a tenured appointment in one of the University's academic units,

appropriate administrative experience and demonstrated skills, and the ability to work with a multicultural and international clientele.

Nominations, applications and inquiries should be submitted to Dr. Erickson, chair of the Search Committee for the Dean of International Programs, Box PS1, 201 Old Main, University Park, Pa. 16802.

The closing date is March 20; however, the search committee will continue to receive applications and nominations until a suitable candidate is selected.

Other members of the committee are: Patricia A. Book, associate vice president and associate dean for Continuing and Distance Education; Julie Ann Bubolz, Graduate Student Association; Jeannette D. Bragger, professor and head of the Department of French; Norman Freed, associate

dean, Eberly College of Science; Frederick Gaige, campus executive officer, Penn State Berks Campus; Fariborz Ghadiri, William A. Schreyer Chair in global management, policies and planning and director of International Programs, The Smarck College of Business Administration; Peter T. Luckie, associate dean for research, College of Earth and Mineral Sciences; Michael R. Laubscher, director of Education Abroad Programs; Sara C. Parks, associate dean for the Commonwealth Educational System and International Programs, College of Health and Human Development; John Prodromidis, International Student Council; Roberta L. Salper, head of the Division of Humanities and Social Sciences, Penn State Erie, The Behrend College; and C. Shannon Stokes, interim associate dean for international programs, College of Agricultural Sciences.

NSF recognizes nine faculty members

Nine University members have been awarded Faculty Early Career Development Program Awards by the National Science Foundation. These awards go to junior-level faculty and emphasize the importance NSF places on integrating research and educational activities into academic careers.

The NSF received 1,735 proposals and awarded 337 early career grants ranging from \$70,000 to \$300,000 and covering periods of from three to five years.

Penn State recipients are:

■ **Ana P. Barros**, assistant professor of civil engineering, College of Engineering, for "Integrated Hydrologic Analysis for Flood Forecasting and Control."

■ **Liming Chang**, assistant pro-

fessor of mechanical engineering, College of Engineering, for "Development and Use of a Mixed-Lubrication Laboratory for University-Industry Collaboration and Education."

■ **Cheng Dong**, assistant professor of bioengineering, College of Engineering, for "Faculty Early Career Development in Education and Research."

■ **Jenni-Louise Evans**, assistant professor of meteorology, College of Earth and Mineral Sciences, for "Tropical Convection and the General Circulation."

■ **Thomas Gramila**, assistant professor of physics, Eberly College of Science, for "Electron Drag Measurements: A New Approach to Physics in Electron Systems."

■ **John Hannan**, assistant professor of computer science and engineering, College of Engineering, for "Specification and Verification of Compiler Algorithms."

■ **Theresa S. Mayer**, assistant professor of electrical engineering, College of Engineering, for "Fabrication of Two- and Three-Dimensional Photonic Crystals."

■ **Jorge Pullin**, assistant professor of physics, Eberly College of Science, for "Theoretical Investigations in Classical and Quantum Gravity."

■ **Susan Trolter-McKinstry**, assistant professor of ceramic science, College of Earth and Mineral Sciences, for "Property Tailoring and Reliability in Ferroic Film Actuators."

News in Brief

Fellowship meeting

On Tuesday, Feb. 20, Mike Morse from the Department of Exercise and Sport Science will speak on "Ten Maxims for More Active Involvement in the Church." The Penn State Catholic Faculty and Staff Fellowship Group invites everyone to join the discussion beginning at noon in 212 Eisenhower Chapel. You may bring your lunch.

Paid volunteers needed

The Laboratory for the Study of Human Ingestive Behavior needs adults (ages 18-40) to participate in cookie tasting. The test session will take approximately 30 minutes and will be held in Henderson Building. Available test dates are from Feb. 19-March 10. Volunteers will be compensated. Anyone interested should contact Hilly at (814) 863-8482. Bar-

bara J. Rolls is the principal investigator for this project.

Science writers field trip

The Penn State Chapter of the National Association of Science Writers will hold a noon field trip on Wednesday, Feb. 28, to the Noll Physiological Research Center.

The trip will be hosted by William J. Evans, the center's director and a professor of nutrition and applied physiology. During a brown-bag lunch, Dr. Evans will discuss the center's operation and its clinical research studies. He will then lead a tour of the facility. After the tour, the NASW chapter will hold its monthly business meeting.

News is a satellite facility of Penn State's General Clinical Research Center, based at The Milton S. HERSHEY

Medical Center. Clinical research at Noll primarily explores topics related to the metabolic and nutritional changes that occur as people age. To attend the program, meet at noon in the lobby of the facility, located near the intersection of Burrowes and Pollock roads on the University Park Campus.

NASW lunchtime programs are open to anyone interested in science communication. For more information, contact Scott Turner, (814) 865-9481, or by e-mail at stx11@psu.edu.

HUB/Robeson design committee named

A building design committee for the HUB/Robeson Project has been formed and will meet with project architects and special consultants to begin the process of interpreting and

modifying the project's program statement. This process will last through the project's design phase, which is expected to be completed within the next year.

Serving on the committee, appointed by William Asbury, vice president for Student Affairs, are undergraduate students, Sharon Entenberg, Nikesha Joy, Gordon Savage and Mark Sosnowsky; graduate student Mihul Parekh; staff and administrators David Giesher, Mel Kline, Stan Latta, Chae Miller, Tom Poole, Stephanie Schmidt and Larry Young; and faculty member Maryann Domitrovitz. Ex-officio members are Mr. Asbury and Patricia Peterson.

The committee's first meeting will be Friday, Feb. 16, from 3-4:30 p.m. in 227 HUB. For more information, contact Mr. Miller at (814) 865-7661.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Record crowds

The Nittany Lion and Lady Lion basketball teams both have attracted record crowds to the new Bryce Jordan Center. Coach Jerry Dunn's team attracted a crowd of 15,128 — the new arena's largest — for their 82-68 victory over Indiana.

The Lady Lions drew a throng of 12,093 for their opening Jordan Center game — a nationally televised contest with Georgia.

Jackson honored

Former Penn State wide receiver Kenny Jackson was inducted into the New Jersey Sports Writers Association Hall of Fame. Presently an assistant on Coach Joe Paterno's staff, Mr. Jackson was a No. 1 draft choice of the Philadelphia Eagles and played eight years in the NFL.

Milne gets award

Senior fullback Brian Milne received the Most Courageous Athlete Award from the Philadelphia Sports Writers Association at the organization's 92nd annual dinner recently. A native of Waterford, Pa., he overcame Hodgkin's Disease to become a standout offensive performer for the Nittany Lions.

Swimming

Big Ten Championship competition is on the horizon for the men's and women's swimming teams. Coach Peter Brown's men's team meet is at Michigan, Feb. 15-17. Coach Bob Krimmel's women's team meet convenes Feb. 22-24 at Minnesota.

Gymnastics meet

One of the more attractive events of the indoor sports season is on tap for Saturday, Feb. 17, when the men's and women's gymnastics teams entertain Ohio State in a double dual meet. Action is scheduled to get under way at 7:30 p.m. in Rec Hall. Penn State also will be host for the NCAA Northeast Regional in women's gymnastics on April 13 at 7 p.m. in Rec Hall.

For the Record

The goal for the Sy Barash Three-Point attack against cancer is \$25,000. An incorrect amount was listed in a photo caption on page 16 of the Feb. 1 issue of Intercom.

Carpooler

Michael would like to be a passenger in a carpool from the Julian area to University Park. His work hours are 8 a.m.-5 p.m. Monday through Friday. Please call 863-0401 or 235-9123.



Braving the cold

Despite the chill in the air, art student Beverly Schmidt spent time sketching a moving-figure drawing at Fisher Plaza on the University Park Campus recently. The photograph was taken for Jock Lauterer's Comm 269 class, Introduction to Photojournalism, under the category of weather-related photo.

Photo: Melanie Cox

Penn Staters

James B. Anderson, professor of chemistry, presented lectures at the University of Goettingen and the University of Heidelberg, Germany, while attending the International Symposium on Gas Phase Reacting Systems. He later visited Halkidiki, Greece, where he lectured at the meeting on New Methods in Quantum Theory.

Dr. Anderson then presented a series of lectures on chemical physics at Peking University. The lectures were titled "Exact Quantum Chemistry by Monte Carlo Methods," "The Hydrogen-Iodine Reactions: Experiment and Theory" and "Direct Simulation of Chemical Reaction Systems." While attending the 1995 International Chemical Congress of Pacific Basin Societies in Honolulu, he presented a talk titled "An Exact Quantum Monte Carlo Calculation of the Interaction of Four Helium Atoms."

Hubert L. Barnes, distinguished professor of geochemistry and director, Ore Deposits Research Center, has been awarded the University of Wales, Cardiff's highest honorary title of Distinguished Visiting Fellow associated with the Department of Geology. The award is to encourage and recognize liaison and association with industry and commerce, government, research establishments and the arts.

Eric J. Barron, professor of geosciences and director, Earth System Science Center, has been elected a Fellow of the American Meteorological Society.

PENN STATE INTERCOM

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312 Old Main, University Park, PA 16802 Phone: (814) 865-7517
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PENN STATE



INTERCOM

February 22, 1996

Volume 25, Number 23

Penn State receives \$2.5 million through gifts

The College of Engineering and the School of Hotel, Restaurant and Recreation Management are the beneficiaries of a total of \$2.5 million in endowments committed to the University.

Walter L. and Anne G. Robb of Schenectady, N.Y., have made a \$1.5 million commitment to endow a faculty chair in chemical engineering in the College of Engineering. This will be the first endowed chair in the chemical engineering department.

The Robbs previously endowed the George A. and Ruth S. Robb Graduate Fellowship in Chemical Engineering, in honor of Mr. Robb's parents, and have supported Penn State's College of Engineering for more than 40 years.

"The Walter Robb Family endowed chair will support and recognize the teaching and research of an eminent senior faculty member," said David Wormley, dean of the College of Engineering.

School of Hotel, Restaurant and Recreation Management has committed \$1 million to endow a fund in the School of Hotel, Restaurant and Recreation Management. The future endowment, to be created with an irrevocable commitment from his estate, will aim to improve the quality of education in the school by giving faculty more exposure to real-world experiences in the hospitality industry.

According to Stuart Mann, the

school's director, support from the Friedman Endowment for Faculty Development could be used for a wide variety of experiences, that will keep teachers and researchers up to date on changing needs in the field of hotel, restaurant and institutional management.

"The endowment might support such activities as bringing corporate

See "Gifts" on page 3



Hitting the spot

Gary Gleason, a morale committee member, rubs dancer Christine K. Flynn's back Feb. 18—the last day of the Interfraternity Council/Panhellenic Dance Marathon at University Park, which this year raised more than \$1.2 million for the Four Diamonds Fund at The Hershey Medical Center. A record 549 dancers finished the 24th annual Dance Marathon.

Photo: Kristie Guldner

University's new plan prompts questions

While the news of the University's draft Plan for the Commonwealth announced Feb. 15—which calls for the reorganization of Penn State to better serve Pennsylvania—is digested by those within the system and many outside of it, broad input about the structure and operation of Penn State is being received.

In an effort to answer questions from faculty and staff about the restructuring plan, a satellite teleconference that will be beamed to each campus location is scheduled for 1 p.m. today. During this live/interactive teleconference, President Graham B. Spanier, along with Robert E. Dunham, senior vice president and dean for the Commonwealth Educational System, and John Brighton, executive vice president and provost, will provide a brief update of the proposed plan. The bulk of the teleconference will be devoted to a call-in question-and-answer period for faculty and staff.

Under the proposed reorganization, both Abington-Ogontz and Altoona campuses will become four-year colleges

See "Questions" on page 3

Inside

WEB
BROWSER

The Web Browser

This week, Doug Stanfield takes a look at cool sites on the Web for news junkies. Take a peek at page 8.



Special Intercom Notice

Each Thursday, you can find certain portions of the *Intercom* on the World Wide Web. Access these stories by visiting the University Relations home page at URL <http://www.pubinfo.oud.psu.edu> and clicking on the link to *Intercom*.

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DIVERSITY

Upward Bound helps open doors for students

By NANCY A. WILLIAMS
writer/editor

When Jocelyn Maddox started thinking about college, she looked at schools close to her home in Steelton, a town outside of Harrisburg, "but I didn't really think at all about Penn State," Jocelyn remembers. All that changed when she was accepted into Penn State's Upward Bound Program.

Upward Bound provides academic support programs for low-income, first generation college-bound students throughout the year, including an intensive, six-week residential summer program.

"Upward Bound motivated me to think of really going to college," she said. "The program helped me to prepare for what would be ahead."

The Upward Bound Program at Penn State has been providing services since 1968 and recently received funding of more than \$1.46 million from the U.S. Department of Education to continue through 1996.

"Under this grant, our Upward Bound Program serves 120 students each year from eight target high schools in central Pennsylvania — Clearfield Area, Indian Valley, Moshannon Valley, Mount Union Area, Phillipsburg-Osceola, Southern Huntingdon County, Steelton-Highspire and West Branch area high schools," Maureen Mulderig, program director, said.

One Saturday a month during the academic year, students attend activities at University Park, which

"If it weren't for this program, I don't think I would be here at Penn State. I knew college was no joke and if I wanted to succeed, I was going to have to get my act together. Upward Bound has helped me do just that."

Sharia Davenport
undergraduate student

are coordinated by Mike Coffey, special projects coordinator.

"Saturday campus sessions include motivating educational and cultural activities to prepare students for college — such as seeing a play, touring research labs and participating in career and college fairs," Ms. Mulderig said. "In addition to these activities, Penn State undergraduates studying to be high school teachers will design and present creative mini-lessons in writing, math, science, foreign languages and study skills to Upward Bound students."

During the six-week academic session on campus, students live in the residence halls and take classes that will help them during the next year. Students also receive tutoring in their high school courses, explore different careers, identify their own strengths, enjoy cultural events, build up their social

skills and become comfortable in a college campus environment. They are also helped through the process of applying to college and seeking financial aid.

"Without Upward Bound, I would not have made it," Ms. Maddox said. "I became pregnant and wasn't able to attend the summer session, but they sent materials to work on and helped me with my Penn State application. Without them, I wouldn't be here."

"This is what Upward Bound is all about: providing academic and personal support to motivate and prepare these students to be the first in their families to attend college," Howard Wray III, associate dean for undergraduate education and academic assistance programs, said. "The Penn State program is highly successful because it focuses on getting students actively involved in learning and on helping them develop problem-solving skills."

Upward Bound has been able to track 134 of 137 graduates from the classes of 1990-95. This follow-up demonstrates the success of the program. More than 90 percent of Upward Bound alumni are attending the college or university of their choice and half of those are at Penn State.

"Upward Bound is an excellent program. If it weren't for this program, I don't think I would be here at Penn State," added Sharia Davenport, also from Steelton. "I knew college was no joke and if I wanted to succeed, I was going to have to get my act together. Upward Bound has helped me do just that."

News in Brief

Academic advising

The Division of Undergraduate Studies (DUS) will host two brown-bag lunches this semester on academic advising. Initiated last spring, these programs provide advisers with an opportunity for professional development and networking. All University faculty and staff interested in undergraduate advising may attend. Both lunches will be held from noon to 1 p.m. in 305 HUB on the University Park Campus.

The Penn State Adviser will be the topic for discussion on Monday, Feb. 26, to be led by Joyce Buck, DUS programs coordinator, College of Arts and Architecture; Stan Supon, DUS programs coordinator, The Smell College of Business Administration; and Eric White, director of DUS. This new publication, developed by DUS, focuses on the behavior of advisers; it examines who an adviser is, who advises are and how to carry out advising activities. Copies of *The Penn State Adviser* will be given to advisers attending the lunch.

"Academic Advising for Students Interested in Study Abroad" will be considered on Monday, March 25. Katie Porter, promotion/study abroad adviser, Education Abroad Programs, will lead the discussion.

For more information, contact Laura Brown, 205 Grange Building, at (814) 865-7576, lbl1@oas.psu.edu.

"Forum Decorum" and other big classes

The students of the Schreyer Institute for Innovation in Learning are sponsoring a second learning forum for this year from 3:30 to 4:30 p.m. Wednesday, Feb. 28, in the Alumni Lounge, Old Main on the University Park Campus. The topic of discussion is the environment of large classes such as those in the Forum.

Faculty and students are encouraged to attend and participate in the discussion. For more information, please contact the institute at (814) 865-8681.

Community service

In 1995, more than 8,600 University students were involved in community service totaling more than 188,000 hours of service to the Centre County Community. This represents approximately \$836,000 based on a minimum wage average.

According to the Office of Volunteer Programs and Services, these numbers are underestimated due to underreporting. Student organizations and University departments are requested to submit the 1995-96 report. Please assist the university community in obtaining a more accurate account of your efforts. If you have not received a report form, please call the Office of Volunteer Programs and Services at (814) 863-4624 for a copy. Deadline is March 29.

Faculty/Staff Alerts

International mail update

International mail was put up for bid and awarded to a new vendor in November 1995. This vendor was on a three-month trial period and has not met Penn State's expectations. Since Feb. 12, Mail Services has been using the U.S. Postal Service for international mail until a new vendor is awarded the contract. Mail Services apologizes for any inconvenience and late deliveries the University has experienced for the past few months.

Enlightening Lunch

Make Leap Year a time to get into first gear with an exercise program. Topics such as choosing the right activities, getting motivated, monitoring progress and establishing a more active lifestyle will be discussed. Meets Thursday, Feb. 29 from noon-1 p.m. in 110 Henderson Building (The Living Center). Cost: None. To register, contact Jan Hawbaker at (814) 865-3085.

Upcoming HRDC courses

Several courses are being offered by the Human Resource Development Center. To see a description of each course, check the HRDC course catalog sent to all University employees at the start of the semester or log in to the Intercom Web site from the home page of the Office of University Relations at URL: <http://www.palinfo.and.psu.edu>.

To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

Questions

continued from page 1

within the Penn State system, each headed by a dean who will report to the provost; Berks Campus, still under evaluation, will merge with Allentown and could become a four-year college; Great Valley will remain a graduate center; 12 campuses will become part of a new Commonwealth College. Schuylkill will combine with Penn State Harrisburg to form a two-campus Capital College; and Penn State Erie, The Behrend College will continue its current mission.

By today, each campus should have in hand the full plan describing the proposed structure of Penn State and how their individual location fits into the University organizational chart for their review. Along with the plan, each campus will receive instructions to begin their five-year enrollment projections and a five-year budget plan based on those projections. In addition, campus administrators are asked to come up with a list of possible programs their location can offer, based on market research.

"As with all change, there are questions and concerns about what will happen to the individual, their future, how things will operate," Dr. Dunham said. "We have several outlets available, like the World Wide Web site and e-mail options, that allow people to obtain answers quickly and easily. Many of the questions that you may have are the same questions that your colleagues are posing."

Some of the early, often-repeated questions Dr. Dunham has heard include:

Q. Will there be any restrictions on students who want to change their location from a campus other than University Park to University Park?

A. There are no plans to restrict students who may move from any campus to an upper-division campus (including University Park). In the case of some majors at University Park with enrollment controls, there may be restrictions with regard to space and students would be selected based on their academic records. Overall, however, we would

Need to know more?

Information on the Plan for the Commonwealth on the World Wide Web at URL: <http://www.pubinfo.psu.edu>.

like the growth at campuses to be at the upper level.

Q. Will campuses in the "new" colleges be able to deliver programs from other colleges in addition to having some of their own?

A. We would like to encourage this to happen. Some of the existing University Park and Harrisburg programs may be continued and some of the existing programs offered by University Park colleges may be shifted to one or more of the new colleges, with Faculty Senate approval.

Q. May I choose to continue my tenure in my University Park college?

A. The Plan calls for faculty to choose to keep it there or move it to the new college. In either case, all future personnel decisions (after July 1, 1997) will be made by the new college.

Q. Why didn't we have the Commonwealth College as one of the options for our campus?

A. The Commonwealth College was a response to the need expressed in the planning documents by most, if not all, campuses to be able to offer their own four-year programs in a quicker and more responsive manner than is presently the case. Students at most campuses have also expressed this need. It was not appropriate for each campus to become a four-year college, so the idea of a Commonwealth College seemed to be the vehicle for allowing campuses to satisfy this need. A college is the unit for offering degree programs and also for dealing with personnel decisions such as tenure and promotion.

Gifts

continued from page 1

executives to campus to share their experiences," Dr. Mann said, "or providing our faculty with internships in the industry or with opportunities to participate in industry-sponsored research projects that have implications for our own educational programs. It could support almost anything that would further the professional development of our faculty."

Dr. Mann also noted the Friedman endowment would be important in attracting and retaining outstanding faculty. The School of Hotel, Restaurant and Recreation Management enrolls about 1000 students at all levels.

Dr. Robb, management consultant and president of Vantage Management Inc., was senior vice-president for corporate research and development for General Electric Co. until his retirement in December 1992. At GE, he directed the research and development center, one of the world's largest and most diversified industrial laboratories and served on the company's corporate executive council. A member of the National Academy of Engineering, he holds a dozen patents dealing with permeable membranes and separation processes. In September 1993 he received the National Medal of Technology from President Clinton for his leadership in the computerized tomography and magnetic resonance imaging industry.

Before joining GE's Research and Development Center, Dr. Robb headed the company's medical systems for 13 years. He directed that organization's growth to become the world's leading producer of medical diagnostic imaging equipment turning it into a billion-dollar-plus per year advanced technology, world-wide business.

Dr. Robb is a chemical engineer with a bachelor's degree in chemical engineering from Penn State in 1948, and a Ph.D. from the University of Illinois.

Anne Robb is a graduate of Russell Sage College in Troy, N.Y. After graduation she worked for the GE patent department.

Dr. Robb, who lists his sophomore course in chemical engineering stoichiometry as "one of the defining courses in my education," said he's "pleased my 41-year GE career has given Anne and me the opportunity to make this commitment."

"I've never forgotten how fortunate I was to have inspiring professors throughout my college career. I believe that academic research is a key advantage to U.S. industry. Our gift should help the chemical engineering department continue its history of excellence in both teaching and research."

Mr. Friedman, a State College native, earned a master's degree from Penn State in hotel, restaurant and institutional management in 1995. He has an undergraduate degree in business from The Ohio State University and holds an MBA from San Francisco State University and a juris doctor degree from the University of San Francisco. He is the owner of the Friedman Real Estate Group, a company in State College, which specializes in real estate services and investments.

"Penn State has always been an important part of my life, even when I was a youngster growing up in State College. My interest in the hospitality industry makes this gift an ideal way for me to give something back to the University," he said.

Mr. Friedman's gift, a deferred pledge agreement known as an estate note, is a legal commitment binding on his future estate. According to Leslie Saftig, director of planned giving and endowments, donors can fulfill the pledge at any time during their lifetime. Many fulfill estate note commitments within a few years, but the structure permits them to pay as they are able, without restricting them to a defined schedule.

25-year Awards



Barry M. Bloom

John F. Gingery

Louis A. Rubano

Toner Bower

Joan Koons

Barbara A. Stainbrook

Observing 25 years of service at the University are, from left, Barry M. Bloom, experimental propeller fabricator with the Operations Office; John F. Gingery, truck driver and warehouseman; Louis A. Rubano, research associate with the Guidance and Control Department, all with the Applied Research Laboratory; Toner Bower, plumber fitter, Office of Physical Plant; and Joan Koons, psychiatric assistant, Geriatric Psychiatry Unit, and Barbara A. Stainbrook, staff nurse, Nursing/Out-Patient Surgical Suite, both at The Hershey Medical Center

LECTURES

Talk centers on caring for the disabled elderly

Steven Zarit, professor of human development in the College of Health and Human Development, will present the annual Pattishall Lecture at 4:15 p.m. Thursday, March 14, in 209 Henderson Building South on the University Park Campus. He will discuss "Families at the Crossroads: Caring for Disabled Older People." The lecture is open to the public. A reception will follow in the Henderson Living Center.



Steven Zarit

Dr. Zarit, a faculty member in the Department of Human Development and Family Studies, is assistant director of the Gerontology Center. He is considered an international leader in research on caregiving for impaired elderly. His work has helped other researchers and the public understand that the consequences of Alzheimer's disease extend beyond the patient to affect caregivers, families and others in the elderly person's social system.

Dr. Zarit, who came to Penn State in 1986, recently co-authored *Profiles in Caregiving: The Unexpected Career*, which describes the lives of people

who care for family members with Alzheimer's disease or other forms of dementia. It is the first book to explore the issues associated with effective caregiving for dementia patients over a sustained period of time. He is a Fellow of the Gerontological Society of America and is past president of the adult development and aging division of the American Psychological Association and has served on many APA committees. He is former chair of the aging subcommittee for the National Institute of Mental Health. He has served on the editorial boards of several gerontological journals. He also is co-facilitator of the Alzheimer's Support Group of Centre County.

The Pattishall Lecture is presented by the recipient of the Evan G. and Helen G. Pattishall Outstanding Achievement Award, which was endowed by Evan Pattishall, dean emeritus of the former College of Human Development, and his wife, Helen, a graduate of the college.

Nabisco v.p. to deliver management talk April 19

The 1996 R. Hadly Waters Logistics and Transportation Symposium will focus on the management of business supply chains. Keynote speaker for this year's event will be Joseph C. Andraski, vice president of strategic planning for Nabisco, Inc. His address, to be delivered in Presidents Hall of the Penn State Scanticon Conference Center Hotel at 8:15 a.m. April 19, will cover "Logistics Leadership: Developing Relationships with Senior Management."

The symposium is named for the late R. Hadly Waters, a major contributor to the development of the highly regarded business logistics programs housed in The Smeal College of Business Administration. Co-sponsored by The Smeal College's Center for Logistics Research and Department of Business Logistics, in conjunction with the Council of Logistics Management and the Penn State Logistics Association, the sym-

posium annually attracts 200 students, faculty members and business people. Coordinators are John J. Coyle and Robert A. Novack of the Smeal logistics faculty.

The symposium will feature speakers from United Parcel Service, New Holland North America Inc., Xerox Corp., Quantum Consulting Associates, Customized Transportation Inc., Canning Consumer Products Co., Hewlett-Packard, Schneider National, GENCO Distribution System, Chemical Leaman Tank Lines Inc., Pittiglio, Rabin, Todd & McGrath, Managistics as well as from The Smeal College.

All sessions will be held at the Penn State Scanticon on April 19, except for an opening reception at the Atherton Hotel, State College on April 18. For further information, please contact LuAnn Jaworski, The Smeal College Department of Business Logistics, at (814) 865-1866.

Former CEO to give Shoemaker ethics talk

Jerre L. Stead, former chair and chief executive officer of AT&T Global Information Solutions, will deliver the eighth G. Albert Shoemaker Lecture in Business Ethics in the boardroom of the Nittany Lion Inn, on March 14.

A program of The Smeal College of Business Administration, the Shoemaker Lecture series was established in 1986 by late coal industry leader G. Albert Shoemaker and his wife, Mercedes.

Mr. Stead most recently was an executive-in-residence at George Washington University in Washington, D.C. Before that, he was chair and chief executive officer of Legent Corporation in Herndon, Va., stepping down after its successful merger with Computer Associates in 1995.

From 1993 to 1994, he was executive vice president of AT&T and chair and CEO of AT&T Global Information Solutions. During this period, he also served as a member of AT&T's management executive committee and its global operations committee.

Mr. Stead also has served as chair, president and CEO of Square D Company of Palatine, Ill., a leader in industrial control and electrical distribution products, systems and services. Before that, he held various managerial positions with Honeywell, Inc., Min-



Jerre L. Stead

neapolis, acting most recently as vice president and group executive of Honeywell's Homes and Buildings Group.

He is a board of directors member with API, Armstrong World Industries, Autodesk Inc., R.K. Donnelley and TBG Holdings, N.V. He has been the chair of the President's Council of the American Lung Association and of the Board of Governors of the National Electrical Manufacturers Association.

Mr. Stead serves on the boards of Coe College, Garrett Evangelical Seminary, the University of Iowa, the University of Maryland and Northwestern University. He earned a bachelor's degree in business administration from the University of Iowa and attended the Harvard University Advanced Management Program.

Videoconference on global education to be held Feb. 23

A live, interactive videoconference titled "Global Education: Bringing the World into the Classroom" will be presented at 1 p.m. Friday, Feb. 23, at the International Lounge in 222 Boucke Building on the University Park Campus. The two-hour satellite broadcast is originating from Old Dominion University's Academic Television Services in Norfolk, Va.

The program will offer instructors guidance in identifying and using local resources to internationalize their courses. It will take a close look at community resources such as businesses, government agencies, non-

profit organizations, educational institutions, foreign students and Peace Corps volunteers. Participants will have an opportunity to ask questions of featured presenters and share information with others. Questions via fax also will be accepted.

The videoconference will feature Charles Baquet, deputy director of Peace Corps; Juanita Crabbe, executive director of Sister Cities International; Jerry W. Leach, executive director of the National Council of World Affairs Organizations; and JoAnn McCarthy, executive director of International Programs, Old Dominion University.

Ecological designer to speak tonight

The Raymond Bowers Center for Excellence in the Design and Construction of the Built Environment will present a public lecture by John Lyle as part of its annual public lecture series for the College of Arts and Architecture Department of Landscape Architecture.

The lecture, titled "A New Kind of Learning Place," will be held at 7:30 tonight in 112 Walker Building on the University Park Campus.

Mr. Lyle, a professor of landscape architecture at California State Polytechnic University at Pomona, is internationally renowned as an advocate, practitioner and scholar of ecologically sustainable design. He is the founder and director of the Center for Regenerative Studies at Cal Poly at Pomona, a demonstration and research center for the ecologically-based design of communities and built environments.

The lecture is free to the public.

More Lectures

International educational workshop to examine Australia's methods

John Wells, assistant director of the Australian Education Office in Washington, D.C., will discuss "The Australian Educational Marketing Model and International Student Recruitment in the Pacific Rim" at an international educational workshop at 1:30 p.m. Thursday, Feb. 29, in 205 Shields Building on the University Park Campus.

The workshop, which is free to the public, is being co-sponsored by the

Office of Enrollment Management and Administration, the Australian-New Zealand Studies Center and the Office of International Students. Refreshments and open discussion will follow the workshop.

If you plan to attend or would like more information, please contact Carol Walker (e-mail: caw18@psu.edu; phone: (814) 863-4774) or Pat Corbett (e-mail: pac9@psu.edu; phone: (814) 863-1603).

Glencairn Museum topic of lecture

The College of Arts and Architecture Department of Art History continues its lecture series, "The Fortune of Medieval Art in America," with a lecture by Michael Cothren, professor of art history at Swarthmore College. The talk, titled "The Legacy of Ornament: Searching in the Glencairn Museum," is at 2 p.m. Sunday, Feb. 25, in the Palmer Lipson Auditorium of the Palmer Museum on the University Park Campus. The lecture, originally scheduled for Feb. 4, was postponed because of inclement weather.

Dr. Cothren, a specialist in the study of the stained glass of medieval France, has published a number of articles on the windows of the abbey church of Saint-Denis, and

the cathedrals of Rouen and Beauvais. He is currently preparing a volume of the "Corpus Vitrearum," dedicated to the stained glass in the Glencairn Museum, some of which is included in the current exhibition at the Palmer.

The lecture is planned in conjunction with the exhibition "Medieval Art in America: Patterns of Collecting 1800-1940," shown at the Palmer Museum through March 3. All lectures are free to the public. The lecture series is intended to expand upon selected topics explored in the exhibition and its accompanying catalog. All lectures in the series are co-sponsored by the Institute for the Arts and Humanistic Studies and the Center for Medieval Studies.

Concert/lecture planned for Feb. 24

Robert Hatten, associate professor of music theory, will discuss and perform two highly concentrated works from the transition to Beethoven's late style at 4:30 p.m. Saturday, Feb. 24, in the School of Music Recital Hall on the University Park Campus.

Dr. Hatten will examine Beethoven's innovative approaches to

form and gesture during his presentation of the Piano Sonata in A Major, Op. 101, and the Sonata for Cello and Piano in C Major, Op. 102, no. 1.

He will be joined by guest artist and cellist, associate professor Kim Cook, in her first appearance following her Carnegie Hall debut.

The event is free to the public.

Penn State Erie, The Behrend College

Speaker series looks at equal opportunity

Equal opportunity is the next issue to be explored in the 1995-96 Speaker Series, "Facing Change: Generations at the Crossroads," at Penn State Erie, The Behrend College.

Juan Williams, author of the 1987 nonfiction best-seller, *Eyes on the Prize: America's Civil Rights Years, 1954-1965*, and Terry Eastland, former director of public affairs for the U.S. Department of Justice during the Reagan administration, will debate "Equal Opportunity in a Post Affirmative Action America" at 7:30 tonight in the Reed Union Building Commons.

Astronomy open house set for Feb. 29

Penn State Erie, The Behrend College, is presenting an Open House Night in Astronomy at 7:30 p.m. Thursday, Feb. 29 in Room 101 Otto Behrend Science Building.

The featured speaker will be Scott McKenzie, a member of the Meteoritical Society, who will speak on meteorites, craters, the solar system, and the conditions that existed billions of years ago on Earth. The lecture will include a slide show and a display of meteorites, including a piece of the planet Mars.

Harrisburg is site of next tour stop Feb. 29 as part of Spanier's initiative

President Graham B. Spanier kicks off his Feb. 29 visit to the Capital area with a stop at the Susquehanna Alliance breakfast. The Susquehanna Alliance is an organization that encompasses a wide variety of economic development and business/community agencies in the Capital region.

Dr. Spanier, on the spring leg of his statewide tour, makes his way into Harrisburg after a Feb. 22 visit to the Great Valley Campus. While in Harrisburg, the president plans to meet with faculty, staff, students, cooperative extension agents, alumni and administrators. He will take a driving tour of the City of Harrisburg and also will visit Middletown High School. In addition, he will hold an informal press meeting with the local media.

FAST FACTS ABOUT PENN STATE HARRISBURG

Founded: 1966

Service area: South Central Pennsylvania.

Provost: John G. Bruhn

Enrollment: 3,510

Employees: 439

Key programs: Twenty-five baccalaureate, 15 master's and two doctoral programs in five academic schools/divisions: public affairs, humanities, business, behavioral sciences and education, and science engineering and technology.

Nominations being sought for Service Leadership awards

The AT&T Center for Service Leadership is accepting nominations for its 1995-1996 spring awards.

The Partisan and Eclipse Awards are two leadership awards designated to recognize outstanding students. The Partisan Award recognizes a group member in a non-leadership role who has made a valuable contribution to the organization, the Penn State community and Centre County region. The Eclipse Award recognizes a leader who has served as an officer and/or committee chair demonstrating responsibility for the organization and displaying strong leadership skills.

The Rose Cologne Keystone Citizen Award and Laurel Award for Outstanding Service are the two

awards designated to recognize students who have made valuable contributions in the area of service and volunteerism to the Penn State community and Centre County region. The Rose Cologne Keystone Citizen Award recognizes a volunteer who has demonstrated exceptional services and ongoing involvement, particularly in efforts involving social issues.

The Laurel Award for Outstanding Service recognizes outstanding "one time" and ongoing service to the community.

Nomination packets are at the HUB Information Desk and 101C HUB. Nominations are due by noon March 29. For more information call (814) 863-4624.

Blood drive set for Feb. 27-28

The Centre Community Chapter of the American Red Cross will host a blood drive in the HUB Ballroom on the University Park Campus from 10 a.m. to 4 p.m. Tuesday and Wednesday, Feb. 27 and 28.

According to Connie Schroeder, campus coordinator for Red Cross regional blood services, the drive is designed to help alleviate seriously depleted Rh negative blood inventories experienced this month throughout this region.

"Individuals with Rh negative

blood total about 15 percent of the population, yet their donation can benefit a much higher percentage of the population," she said.

All blood types are needed, with an emphasis now on the negative types. Severe January storms forced the cancellation of thousands of scheduled donations.

While walk-in donors are welcome, appointments help with processing time; call Ms. Schroeder at (814) 237-2713 to schedule an appointment.

The ARTS

AT PENN STATE

Penn State Thespians

The Penn State Thespians will present "Working," a musical based on the best-selling book of interviews with American workers by Studs Terkel, at 8 p.m. Feb. 22, 23 and 24 in Kern Graduate Auditorium on the University Park Campus.

Scenic designer for the production is Steve Becker; T. J. Krinock and Matthew Kudish are co-directors; Jason Wetzel is musical director; and Janice Zeller is the costume designer.

General seating tickets are \$4.75 and are on sale at the Thespian Box Office near the HUB desk. Tickets also may be purchased at the door on the evenings of the performance. For more information call (814) 865-9461.

Russian piano professor to teach master class

Guzal Abdoullina, professor of piano at Kazan State Conservatory in the Republic of Tatarstan, Russia, will conduct a master class with piano majors at 2 p.m. Feb. 24 in room 122 Music Building on the University Park Campus.

Dr. Abdoullina is a Fulbright Scholar in residence for the 1995-96 year at Clarion University. Pianist and holder of the Peoples Artists Award, she had been performing since 1962 throughout Russia and other countries of the former Soviet Bloc. More recently she has also performed in France, Finland, Germany and Switzerland. Her performing repertoire includes the major works of Bach, Chopin, Liszt, Schubert and Schumann. The master class is free to the public.

Choral symphony

Approximately 1,000 local performers will present Bruce Trinkle's "Mountain Laurels," a choral symphony celebrating the centennial of State College, on Feb. 24 and 25 at Eisenhower Auditorium on the University Park Campus.

Scheduled to appear are: Penn State Concert Choir, Oriana Singers and String Orchestra, Madrigal Singers, State College Choral Society, Penn State Glee Club, Graduate Brass Quintet, State College Municipal Band, Nittany Knights Barbershop Chorus, Discantus, Hi-Lo's.

Pennsylvania Chamber Chorus, State College Area elementary and junior high choruses, Penn State Chamber Singers, State College Area High School Concert Choir, Central Pennsylvania Youth Orchestra, Castalia Trio, Alard Quartet, Pennsylvania Quintet, Nittany Valley Sym-



Visiting professor

Guzal Abdoullina, professor of piano at Kazan State University in the Republic of Tatarstan, Russia, will be at the University Park Campus to conduct a master class on Feb. 24.

phony and the Penn State University Choir.

The premiere performance of the program will be held at 7:30 p.m. Saturday, Feb. 24, and a matinee is scheduled for 2 p.m. Sunday, Feb. 25.

For ticket information, contact the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) ARTS-TIX.

Odyssey Through Literature on WPSU

On the next episode of Odyssey Through Literature, Ukrainian novelist Volodymyr Dibrova, a Penn State visiting professor from the University of Kiev, discusses the responsibility of fiction in the Ukrainian dilemma. Mr. Dibrova reads from his short story "Feltse," about a character who escapes his pains in the USSR by taking on a new identity in his imagination.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM.

Saxophonist to perform

Saxophonist Dan Yoder, professor of saxophone and director of jazz studies, will present a faculty recital at 8

p.m. Sunday, Feb. 25, in the Recital Hall on the University Park Campus.

Assisting will be Arthur Goldstein on piano; Jason Gianni on drumset; Brad Fredman on bass, and Saxophonia, which includes Brian Watson, Rich Nasto and Sue Kearney.

The concert is free to the public.

Solo recital

Pianist Steven Smith, professor of music, will present a solo recital at 8 p.m. Monday, Feb. 26, in the Recital Hall on the University Park Campus.

The concert is free to the public.

Symphonic Wind Ensemble

The Penn State Symphonic Wind Ensemble will present a concert, "Music of Celebration," at 8 p.m. Wednesday, Feb. 28, in the Recital Hall on the University Park Campus.

The concert will present music inspired by celebratory events.

The Symphonic Wind Ensemble is composed of a select group of wind and percussion students in the School of Music. Ensemble members are studio students of the School of Music wind and percussion faculty which includes Eleanor Duncan Armstrong, flute; Tim Hertz, oboe; Smith Toulson, clarinet; Daryl Durran, bassoon; Dan Yoder, saxophone; John Daniel, trumpet; Lisa Q. Bontrager, horn; Mark Lusk, trombone; Martin Erickson, euphonium and tuba, and Dan Armstrong, percussion. Conductor of the Symphonic Wind Ensemble is Richard Bundy.

The concert is free to the public.

Trombone Choir

The Penn State Trombone Choir, directed by Mark Lusk, associate professor of music, will perform at the Bach's Lunch series at 12:10 p.m. Thursday, Feb. 29, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The audience may take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided. The concert is free to the public.

Dance performance

A new collaborative performance piece will be presented at 2:30 p.m. March 17 in Room 132 White Building on the University Park Campus. The performance, titled "Through the Shadows," is a blend of original works created for music and dance.

The music was written and will be performed by Brendan Freeman Knowlton and David Shotsberger Jr., using a combination of electronic and acoustic instruments. The piece is conceived as an organic whole that unfolds continuously from start to finish.

Choreographers KT Huckabee Milburn and Renita Romasco are both faculty members in the dance



Sesame Street Live coming in March

Don't miss the fun when Sesame Street Live presents "When I Grow Up" at the Bryce Jordan Center at 7 p.m. Monday, March 11, and 10:30 a.m. and 7 p.m. Tuesday, March 12. Opening night tickets are specially priced at \$8.50; tickets for the March 12 performances are \$13 for adults and \$11.50 for children (ages 1-10). Infants are admitted free to share a parent's seat.

Sesame Street Live is a musical extravaganza about discovering dreams. Tickets are now on sale.

Jackson Browne to perform March 29

Tickets are on sale now for the March 29 performance of Jackson Browne, singer/composer/political activist, at the Bryce Jordan Center on the University Park Campus.

Browne will be promoting his new album "Looking East" during his 8 p.m. appearance. Since 1968, Jackson Browne has gained critical recognition as a songwriter with his like "Doctor My Eyes," "Running on Empty," "The Pretender" and "Boulevard."

The singer has participated in Amnesty International, has fought against the proliferation of nuclear power and has focused on foreign policy issues such as the United States' involvement in Central America.

Tickets are \$20.50, \$22.50 and \$32.50.

Tickets for these events can be purchased at the Jordan Ticket Center, selected Uni-Mart throughout Pennsylvania and the Penn State Campus Ticket Outlets in Altoona, Erie, Hazleton and Reading, or charged by phone at (800) 863-3336.

program at the University. The dance work expresses positive and negative elements of the human experience, in response to the musical themes. The work, developed through the dance program in the Department of Exercise and Sport Science, will be performed by students of the dance minor and community members, with sets and costume designs by Ashley Milburn.

Tickets will be sold at the door; general public, \$4 and student/senior citizens, \$3. There will be a reception immediately following the performance.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, February 22

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Horn Ensemble.

Malcolm X Lecture, 7:30 p.m., Paul Robeson Cultural Center. Sonia Sanchez, speaker. Raymond A. Bower's Program for Excellence in Design and Construction of the Built Environment, 7:30 p.m., 112 Walker Bldg. John Lyle on "A New Kind of Learning Place."

HUB "Distinctive Styles," 8 p.m., HUB Fishbowl. "Appalachian Spring," folk and classical styles.

Penn State Theatians, 8 p.m., Kern Graduate Auditorium. Presenting "Working," through Feb. 24. For tickets, call (814) 865-9461.

Friday, February 23

International Programs, 1 p.m., 222 Boucke Bldg. A national videoconference live via satellite, "Global Education: Bringing the World into the Classroom."

Saturday, February 24

Film, 2 p.m., Palmer Lipson Auditorium. "Cathedral."

■ Arts and Architecture, 2 p.m., 122 Music Building. Guest Artist, professor of piano, Republic of Tatarstan, Russia, will conduct a master class with piano majors. Art Education, 3:30 p.m., 12 Sparks Bldg. June King McFee will speak on "The Future Direction of Art Education."

School of Music, 4:30 p.m., Recital Hall. Robert Hatten, faculty lecture recital, and Kim Cook, cello.

School of Music, 7:30 p.m., Eisenhower Auditorium. "Mountain Laurels," a choral symphony to celebrate the State College centennial. Also 2 p.m. Feb. 25. For tickets, call (814) 863-0255.

Sunday, February 25

Center for Medieval Studies, 2 p.m., Palmer Lipson Auditorium. Michael Cottrill on "The Legacy of Ornamet: Searching in the Glencairn Museum."

School of Music, 8 p.m., Recital Hall. Dan Yoder, saxophone.

Monday, February 26

Division of Undergraduate Studies, noon, 305 HUB. A brown-bag lunch on advising. Joyce Buck, Stan Supon and Eric White will discuss "The Penn State Adviser."

School of Music, 8 p.m., Recital Hall. Steven Smith, piano.

University Center Committee, 8 p.m., Eisenhower Auditorium. Ellis & Bradford Marsalis. For tickets, call (814) 863-0255.

Tuesday, February 27

American Red Cross Blood Drive, 10 a.m.-4 p.m., HUB Ballroom. Also Feb. 28. For appointment, call (814) 237-2713.

Renaissance Lecture, 3:30 p.m., 102 Weaver Bldg. Philip Jenkins on "Language, Identity and Monarchy in the Unification of Seventeenth Century Britain."

Wednesday, February 28

National Association of Science Writers, noon, Noll Physiological Research Center. During brown-bag lunch, William J. Evans will discuss the center's operation and its clinical research studies. Tour of facility will follow. For information, call Scott Turner at (814) 865-9481.

Schreyer Institute for Innovation in Learning, 3:30 p.m., Alumni Lounge, Old Main. Learning forum to discuss environment of large classes such as those in the Forum. School of Music, 8 p.m., Recital Hall. Penn State Symphony Wind Ensemble.



Rehearsing

Rusty Pettit, a senior studying theater and dairy and animal science, practices his role as Frank, a truck driver, for the Thesians performance of "Working." The musical will be presented at 8 p.m., Feb. 22, 23 and 24 in the Kern Graduate Auditorium on the University Park Campus. For information call (814) 865-9461.

Photo: Kristie Guldner

Thursday, February 29

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Trombone Choir.

■ Australia-New Zealand Studies Center, 1:30 p.m., 205 Shields Bldg. John Wells on "The Australian Educational Marketing Model and International Student Recruitment in the Pacific Rim."

Center for Academic Computing, 3 p.m., Studio C, Mitchell Bldg. PBS teleconference on "Coping with Changing Campus Culture." Reading, 7 p.m., Palmer Lipson Auditorium. Winners of the Medieval Art in America writing competition present their entries and receive their awards. Reception will follow.

Saturday, March 2

Film, 2 p.m., Palmer Lipson Auditorium. "Castle."

SEMINARS

Thursday, February 22

Physics, 3:30 p.m., 101 Osmond Lab. Edward Seidel on "Solving Einstein's Equations on Supercomputers: Colliding Black Holes and Gravitational Waves"

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Bruce Draper on "Learning Object Recognition Strategies."

History, 4 p.m., 102 Weaver Bldg. Sander Gilman on "You Are What You Eat: The Ritual of Murder and Ritual Slaughter at the Turn of the Century."

Friday, February 23

Carbon Research Center/Fuel Science, 9 a.m., C213 Coal Utilization Lab. Lucy G. Christner on "Fuel Cells: An Emerging Power Source for the 21st Century."

Physics, 11:15 a.m., 339 Davey Lab. Shyamoli Chaudhuri on "Quality, Fields and Strings." Also, at 2:30 p.m., SS Osmond Lab. Josef Piva on "Spectroscopic Studies of Nearby Free Internal Rotation."

Economics, 2:30 p.m., Kern. Peter Schmidt, Michigan State, on "Topics in Econometrics." Institute for High Performance Computing Applications, 3:35 p.m., 216 Hammond Bldg. Rick Gray on "Possible Uses for Supercomputing in the Entertainment Industry."

Central Pa. Assoc. for Educational Communications and Technology, 4 p.m., 123 Chambers Bldg. Martin Tessmer on "Contextual Influences Upon Instructional Design: Predicted Changes in ID Tasks, Tools, and Models."

■ Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. C. Gregory Knight on "The World Map of Precipitation Variability."

Saturday, February 24

Frontiers of Science, 11 a.m., 104 Classroom Bldg. Alex Wolsczen on "Latest Results in the Search for Planets Outside the Solar System."

Monday, February 26

Comparative Literature Luncheon, 12:15 p.m., 101 Kern. Alfred A. Triolo on "Dante's Prologue: What the H— is It?" Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Bldg. Barbara Garrison on "Computer Modeling of Reactions at Surfaces."

Tuesday, February 27

Gerontology, noon, 406 Oswald Tower. Linda Wahl, speaker.

Graduate School of Public Policy and Administration, 3 p.m., 12 Sparks Bldg. Mark D. Hayward on "Career Trajectories and Retirement."

Geosciences, 3:30 p.m., 112 Walker Bldg. Dick Holland on "The Rise of Oxygen." Biology, 4 p.m., 8 Mueller Lab. William Galtart on "TGF- β Signaling During Drosophila Pattern Formation."

Food Science, 4 p.m., 117 Borland Lab. Bruce Tharp on "On the 21st Century: What's in Store for the Frozen Desserts Industry?"

Graduate Program in Nutrition, 4 p.m., 5-209 Henderson Bldg. South. William Smith on "Behavior: We Can Change It."

Programming Coordination Board Distinguished Speaker Series, 8 p.m., Eisenhower Auditorium. Panel discussion including Jody Powell, Pierre Salinger, Helen Thomas and Juan Williams on "The Press and the President." For more information, call (814) 863-8951.

Wednesday, February 28

Adult, Continuing and Distance Education, 11:45 a.m., 502 Keller. Diane Brown on "Penn State Cooperative Extension: 82

Years of Outreach to Residents of the Commonwealth."

The Science, Technology and Society Program, noon, 118 Willard Bldg. Hector Flores on "Intellectual Ecology of Science."

Thursday, February 29

Economics, 2:30-4 p.m., 403 Kern. David Ribar on "A Longitudinal Analysis of Young Women's Fertility and Education Advancement."

Ecology, 3:45 p.m., 108 Wartik. Brenda Casper on "Plant Population Dynamics: Notes from Underground."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Jim Salehi on "Scheduling Network Processing on Multimedia and Multiprocessor Servers."

Institute for the Arts and Humanistic Studies, 4 p.m., Fireside Room, Nittany Lion Inn. George Bronstein on "Under the Moon: Finding New Poems by W. B. Yeats."

Friday, March 1

Computer Science and Engineering, 10:30 a.m., 301 Pond Lab. B. Shirazi on "PARSA: A Parallel Program Scheduling and Assessment Environment."

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Gilbert J. Gall on "Geodemographic Critical Targeting in Right-to-Work Elections."

CONFERENCES

Sunday, February 25

Benjamin Franklin Computer Conference. The Penn State Scanticon. Through Feb. 26.

Monday, February 26

Data Networking Short Course. The Penn State Scanticon. Through March 1.

Wednesday, February 28

Service Leadership Conference. The Penn State Scanticon. Programs including the critical perspectives of leadership, service-learning, and service-education, will be discussed. Call (814) 863-4624.

C&DE Systemwide Conference. The Penn State Scanticon. Through March 1.

EXHIBITS

HUB

Browsing Gallery:

Evelina Francis' fiber sculptures, through March 17.

Formal Gallery:

Work by David Van Dommelen, fiber artist. March 2 through March 30.

Kern Exhibition Areas

Kern Panels:

Teri Karovich photography, through Feb. 21.

Penn Museum

"Medieval Art in America: Patterns of Collecting 1800-1940," through March 3.

"Rapture at the Interface Between Love and Dislike," contemporary photography and sound by David Tepica and Bryan Shuler, through March 10.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10.

"Recent Gifts: The Jack Bershad Poster Collection," through June 2.

Pittie

Levending Services Gallery:

"Reviews of Fire and Water," an exhibition of oil paintings by Kay Picard. Through Feb. 29.

Ritner Lobby

Erica Cho prints, printmaking. Through Feb. 28. Zoller Gallery.

Undergraduate Junior Exhibition, through March 24.

■ Reflects an international perspective

WEB BROWSER

By DOUG STANFIELD
technology editor

This column is for the news and information junkies among you for whom 24-hour-a-day CNN is just not enough. You know who you are.

We've found two free sites on the Web that take different approaches to alleviating the worst symptoms of this problem.

Pointcast Network

<http://www.pointcast.com>

The first is Pointcast Network (PCN), and it replaces those peaceful fish on your screen saver. You can get customized news broadcast and/or print updates over the Internet, and either tune into the network whenever you need the latest breaking news or when your computer goes to sleep.

PCN features six channels: News, Companies, Industries, Weather, Sports and Lifestyle.

The company also has entered into a partnership with Netscape Communications, maker of the Netscape Navigator and other Internet communications products. Netscape and PCN will collaborate on a plug-in option so that PCN users can easily navigate to news sources via Netscape.

Technical information is as follows:

PCN BETA — Release 0.9b1a:

Hardware requirements: 486/33 or faster IBM PC-compatible

Windows 3.1, Windows for Workgroups or Windows95

256 MB of RAM; 10MB free disk space
256 color mode or higher

(Windows NT, Macintosh OS and Unix versions are currently under development)

One final note: This is a beta test version of the software, and you should be prepared for some frustrating moments in case it doesn't work perfectly the first and every time. A sense of adventure is definitely a prerequisite. Any questions or complaints should be directed to the company.

Create your own newspaper

<http://cybernet.net/~murray/crayon.htm>

Another approach to customized news is the one taken by the creators of CRAYON. Conceived and implemented on SUN servers by some computer whizzes at Bucknell University, CRAYON lets you pick and choose between periodicals and broadcast news offerings now on the Web.

You can select options to receive any number of different weather forecasts (it helps to know your location's weather station ID; a lookup file of major stations is thoughtfully provided), including full-color weather maps and links to sources of satellite photos.

The service is provided for free. The server is sometimes a bit slow, but it takes considerable computing power to pull together the HTML listings for the items you choose.

The offerings are broken up into U.S. News, World News, Weather Conditions and Forecasts, the Business Report, Information and Technology Report, Editorial and Opinions, Arts and Entertainment, Sports Today, the Funny Pages, Tabloid Pages, and News and Hot Web Sites.

You can name your "paper" anything you want and can have the information displayed in any order that pleases you. That means you can read the comics first, just like you do at home.

You can e-mail Doug Stanfield at dus9@psu.edu.

Unique artifacts on display



Photos: Greg Grieco

Exhibit continues through Feb. 23

The exhibition "Africa and the Diaspora: Personal Collections" is now in its fifth week on display at the Paul Robeson Cultural Center on the University Park Campus. Sharnie Marsbury, assistant director of the center, examines some of the items on display for the exhibition, which is sponsored by the College of Arts and Architecture, the Office for Development of the Arts and the Robeson Center.

Items included in the exhibition come from the personal collections of Penn State faculty and staff, particularly Grace Hampton, executive assistant to the provost for the development of the arts, and Charles Dumas, visiting professor in the Department of Theatre Arts.

The free exhibition is open from 8 a.m. to 10 p.m. Monday through Friday; 11 a.m. to 4 p.m. Saturday; and 1 to 4 p.m. Sunday. It continues through Friday, Feb. 23.

Awards

Two EMS World Wide Web pages earn top "star" ratings in Magellan directory

Quality is assured if you choose a four-star hotel or a five-star restaurant when on vacation.

Now, when you're perusing the World Wide Web, star ratings also can point you to two College of Earth and Mineral Sciences Web pages that have been recognized as the cream of the crop.

The College of Earth and Mineral Sciences' "Weather Pages" (<http://www.ems.psu.edu/wx/index.html>) on the Web have been recognized as a "Four Star" Web site by the McKinley Group's Magellan Internet Directory. Four stars is the highest rating that a site can achieve in this comprehensive

directory of more than 1.5 million sites, 40,000 of which have been reviewed.

The EMS Home Page (<http://www.ems.psu.edu/>) also is ranked and now bears the "Three Star" rating, considered a special mark of achievement. Both pages bear the Magellan logo with the appropriate number of stars.

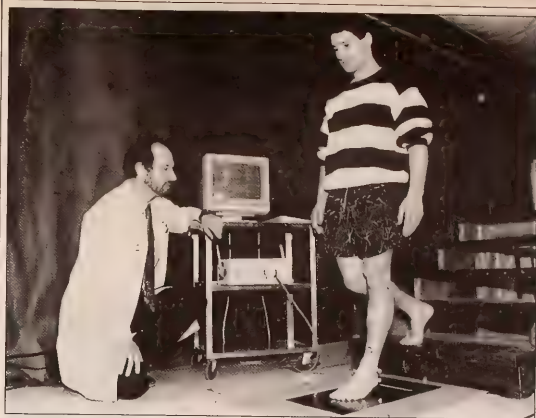
The McKinley Group strives to recognize the best resources on the Net and considers three primary factors: depth of content, ease of exploration and Net appeal.

Robert Hart, graduate student in meteorology, is responsible for the "Weather Pages" site.

Tim Robinson, instructor in the College of Earth and Mineral Sciences and designer of its Web pages, notes that receiving three and four stars is a significant recognition.

Statistics for the EMS home page for the most recently available week indicate that there were 155,410 requests for documents from the site.

"Our 'virtual reality' weather images allow the user to 'reach into' the image and rotate the earth around in order to see the weather anywhere on the globe," Mr. Robinson said. "These images are attracting national and international attention."



One step at a time

Peter Cavanagh, left, Distinguished Professor of biobehavioral health and locomotion studies and director of the Center for Locomotion Studies, works with graduate student Erez Morag in one of the center's laboratories. For the experiment, Mr. Morag has markers attached to his leg and foot as he is videotaped walking down a set of stairs. The markers are seen as bright lights on a videotape, which is then digitized on computer and used to calculate body movement and pressure measurements. The goal of the study is to find ways to improve stairway safety.

Photo: Greg Gricco

BOOK SHELF

Despite predictions to the contrary, President Clinton has not fallen on his sword when it comes to national defense, according to a new book edited by Stephen J. Cimbala, professor of political science at the Penn State Delaware County Campus.

In *Clinton and Post-Cold War Defense*, published in January by Praeger Publishers, Dr. Cimbala argues that the Clinton defense policy is actually better than its public relations.

"Clinton's defense program has basically been a continuation of the Bush program in several areas," he said. "And he has not chopped defense as much as his critics feared he would."

Dr. Cimbala, the author of more than a dozen books on defense and military strategy issues, brings together a distinguished cadre of the

nation's leading defense analysts in *Clinton and Post-Cold War Defense*. The book also includes evaluations of Clinton's defense budget and strategy, approach of arms control and peacekeeping experience.

In writing the book's introduction and conclusion, Dr. Cimbala also addresses the president's ongoing lack of credibility on defense-related issues.

Dr. Cimbala, a specialist on U.S. defense and foreign policy, also is author of *Collective Insecurity: U.S. Defense Policy and the New World Order*, another new book published by the Greenwood Publishing Group.

Rob Frieden, associate professor of broadcast-cable, is the author of a comprehensive primer on telecommunications.

International Telecommuni-

cations Handbook, published by Artech House, is a 435-page overview identifying the basic rules and players in international telecommunications. The book, which serves as a desk reference for practitioners, students and researchers, creates models of understanding how technological innovations, laws, policies, regulations and marketplace forces affect the various constituencies involved.

The book also reports on current developments in satellites, privatization of incumbent telephone companies, liberalization of regulations and policies, and globalization of the industry.

Philip Mosley, associate professor of English, communications, and comparative literature at the Penn State Worthington Scranton Campus, is editor of *Gregory Rodenbach: Critical Essays*, published by Fairleigh Dickinson University Press. In addition to serving as editor, Dr. Mosley contributed an essay, "The Soul's Interior Spectacle: Rodenbach and BRUGES-LA-MORTE," and two appendices.

Obituaries

Helen M. Balcun, residence hall worker at Penn State Erie, The Behrend College, from March 1, 1964, until her retirement Jan. 31, 1976; died Dec. 30, 1995, at the age of 80.

Glenn J. Faust, janitorial worker, group leader, Office of Physical Plant, from Oct. 1, 1950, until his retirement Oct. 1, 1970; died Jan. 19 at the age of 85.

John Y. Fenton, who for eight years taught in the Department of Religious Studies, died Jan. 23 at the age of 62 from complications related to leukemia.

Born in French Camp, Miss., he attended Millsaps College and graduated from Davidson College. He graduated in 1960 with a master of arts degree and in 1962 with a doctorate of philosophy from Princeton University. He went on to teach at Emory University in Atlanta and served as the first director of undergraduate studies there, chair of the department of religious studies from 1975-78 and as acting chair from 1992-93. He was also acting chair of summer studies and served on numerous university committees at Emory.

He was a member of the American Academy of Religion, the Society for South Indian Studies and the Association for Asian American Studies.

Chauncey R. Kay, an associate professor of mathematics at the Penn State Berks Campus from 1958 until his retirement in 1979, died Oct. 19. He was 96.

Professor Kay, an Army veteran of World War I, began at Penn State as an assistant professor and was named associate professor in 1965. Before coming to Penn State, he was a mathematics professor at Wyoming Polytechnic Institute, the forerunner of the Berks Campus, since 1929. He was director of the WPI and Penn State Berks Campus night school for many years. He also was a member of Iota Lambda Sigma and attended both Penn State and Albright College in Reading.

Alice E. Long, senior secretary, Eberly College of Science, from Feb. 1, 1925, until her retirement Aug. 1, 1969; died Jan. 19 at the age of 91.

Quinton Page, maintenance worker, Housing and Food Services, from Oct. 1, 1954, until his retirement Aug. 1, 1977; died Jan. 8 at the age of 72.

Arthur H. Reede, professor emeritus of economics, died Jan. 22 in Daytona Beach, Fla. He was 88.

During his tenure at Penn State, from 1932 to 1970, Dr. Reede taught more than 25,000 students. He played an active role in the development of the labor education program at Penn State, working closely with the United Steelworkers of America and the International Ladies Garment Workers' Union.

As a specialist in labor-management relations, Dr. Reede served as a conciliator and arbitrator for 37 years for various industries across Pennsylvania and New Jersey. He holds both a bachelor's and a master's degree from Penn State, and a doctor of philosophy degree from the University of Rome, Italy.

In addition to teaching at Penn State, he also taught at St. Francis College in Loretto, Pa., Daytona Beach Community College and the Embury-Riddle Aeronautical University in Daytona Beach, Fla.

Jay H. Runkle, laboratory animal caretaker in the College of Agricultural Sciences, from June 1, 1954, until his retirement Oct. 1, 1979; died Jan. 24. He was 78.

Shirley L. Sroka, janitorial worker at the Penn State Fayette Campus, since Nov. 12, 1973, died Jan. 20 at the age of 60.

Appointments

Assistant deans join team at Hershey Medical Center

Dr. Judith S. Bond and Dr. Luanne E. Thorndyke have been named assistant deans at The Milton S. Hershey Medical Center.

Dr. Bond came to the Medical Center in 1992 from Virginia Polytechnic Institute and State University (Virginia Tech), where she served as professor and head of biochemistry and nutrition, and the Medical College of Virginia, Virginia Commonwealth University, where she was affiliate professor. She held both positions since 1988. She previously held several positions in biochemistry at the Medical College of Virginia, beginning in 1968.

Her research experience includes positions as visiting scientist in Adelaide, Australia, and at Strangeways Research Laboratory in Cambridge, England. She served a postdoctoral fellowship in physiology at Vanderbilt University's College of Medicine.

Dr. Bond holds a Ph.D. and an M.S. in physiology and biochemistry from Rutgers University and a B.A. in science from Bennington College in Vermont. Her pioneering research has focused on the actions of enzymes, known as proteinases, that degrade proteins inside the cell and at the cell's surface. Dr. Bond's most significant work began in 1981 with the discovery of the enzyme in kidneys, meprin, that is located on the cell surface.

Among her many professional involvements, she has served as a member and chair of the NIH Biochemistry Study Section and is an executive editor of *Archives of Biochemistry and Biophysics*.

Dr. Thorndyke joined Hershey's Division of General Internal Medicine in the Department of Medicine in 1993. She is the medical director of Hershey Internal Medicine Associates at the Penn State Community Health Center.

She previously co-owned her own general medical practice and during that time also served as clinical director of District Health Center No. 3 for the Philadelphia Department of Public Health.

She has been on the active teaching staff at both Mercy Catholic Medical Center and Pennsylvania Hospital and has been a clinical associate in medicine at the University of Pennsylvania School of Medicine.

Dr. Thorndyke holds a B.A. from Duke University and an M.D. from the University of Nebraska College of Medicine. She completed the Internal Medicine Residency Program at Pennsylvania Hospital and is certified by the Board of Internal Medicine.

She has been active in the Practice Site Medical Directors Committee of University Physicians and is chair of the task force that is developing practice standards and guidelines for the clinical faculty.



Judith S. Bond

Hershey names chair of Department of Obstetrics and Gynecology

Dr. Joanna M. Cain has been named chair of the Department of Obstetrics and Gynecology at The Milton S. Hershey Medical Center. She comes to the Medical Center from the University of Washington in Seattle, where she was professor of obstetrics and gynecology.

Dr. Cain has been on the medical faculty at the University of Washington since 1985. At the University of Washington Medical Center (UWMC), she served in several capacities, including director of the Women's Care Center, attending physician and ethics consultant. From 1983 to 1985, she was on the faculty of the gynecology service in the Department of Surgery at Memorial Hospital, New York City, and was an assistant professor of obstetrics and gynecology at Cornell University Medical School—New York Hospital.

She received her B.S. from the University of Washington and M.D. from Creighton University, Omaha, Neb. She completed her residency in obstetrics and gynecology at the University of Washington and a fellowship in gynecologic oncology at Memorial Sloan-Kettering Cancer Center. She holds a certificate in biomedical ethics from the University of Washington and completed the management program in the School of Business Administration at the University of Washington.

Dr. Cain is president-elect of the Society of Memorial Gynecologic Oncologists and chair of the Ethics Committee of the American College of Obstetricians and Gynecologists. She also is a council member, budget committee member and the program chair of the Ethics and Law Task Force Committee of the Association of Professors of Gynecology and Obstetrics.

She has authored numerous articles, abstracts and book chapters, co-authored several books and presented numerous papers. Most of her published work focuses on issues of gynecologic oncology, pain management and ethics.

Penn College announces administrative changes

Four administrative changes have been made at the Pennsylvania College of Technology in order to recognize new levels of responsibility, further strengthen administrative efficiency and better meet changes and opportunities.

William J. Martin, vice president for college services, has been named senior vice president. Administrative areas reporting to Dr. Martin include: development, student affairs, general services and police/safety.

Davie Jane Gilmour, vice president for academic affairs, will now serve as vice president for academic affairs and provost to further recognize the leadership responsibilities she has in all instructional matters at Penn College.

The Penn College Foundation, managed by Lenore Penfield, now falls under the Development Office. Because of her expanded duties, Ms. Penfield's title has been changed to grant and private giving officer. Robert Meacham will join the col-

lege as executive assistant to the president, a part-time position. The position, formerly held by Robert G. Bowers, professor of mathematics, has remained vacant since Dr. Bowers returned to the faculty on a full-time basis. Mr. Meacham has served as senior partner of Psychological and Counseling Services of Williamsport, and was a member of the Williamsport Area Community College Board of Trustees. He currently serves on Penn College's Corporate Advisory Board.

Media relations specialist joins Worthington Scranton Campus

Deborah Brandt Johnson has been appointed public information and media relations specialist at the Penn State Worthington Scranton Campus.

She will be responsible for organizing and conducting a comprehensive public information program for the campus, including campus outreach, marketing and publicity. She also will serve as writer/editor for the campus alumni newsletter and university publications editor.

Before joining the campus staff, Ms. Johnson served as development coordinator for the Everhart Museum with responsibilities including community outreach, fundraising and membership. She also held the positions of director of public relations and adjunct instructor at Keystone College and has worked as a freelance artist, writer, editor and consultant for area businesses and organizations.

Ms. Johnson received a bachelor of arts degree in communications, with an emphasis in public relations, advertising and journalism, from Bloomsburg University.

College of Medicine welcomes assistant dean

Dr. Robert J. Laskowski has been named assistant dean for medical education for the College of Medicine. In this role he will be responsible for medical education programs at Lehigh Valley Hospital in Allentown, which is affiliated with the College of Medicine. Dr. Laskowski currently serves as senior vice president of clinical services at Lehigh Valley Hospital.

Before joining Lehigh Valley Hospital, Dr. Laskowski served as group medical director and president of the Northeast Permanente Medical Group and associate regional medical director of the Northeast Region, Kaiser Permanente. He holds a bachelor's degree from the University of Pittsburgh; an MBA from the Wharton School of the University of Pennsylvania; and an M.D. degree from the University of Pennsylvania School of Medicine.

He is a board-certified specialist in internal medicine and geriatrics and has served on the faculty of the Temple University School of Medicine and the University of Connecticut School of Medicine. He currently holds the rank of associate professor of clinical medicine in the College of Medicine, The Hershey Medical Center.



Joanna M. Cain



Deborah Brandt Johnson



Luanne E. Thorndyke

When death visits, lodging industry may go to court

By GARY CRAMER
writer/editor

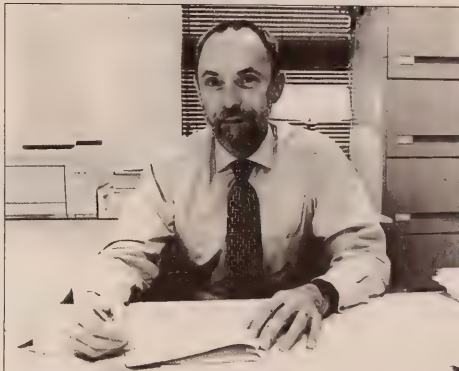
Court cases involving fatalities at lodging sites can reveal a lot about the institutions involved.

The reputation of a site involved in a highly publicized death may never fully recover from the experience, at least locally, especially if the institution was somehow implicated in the case. **Robert D. Lee Jr.**, professor in the School of Hotel, Restaurant and Recreation Management, said.

Dr. Lee examines some prominent and not-so prominent examples of lodging-oriented deaths.

"The marketing for lodging consistently conveys an image of pleasure, but the reality is that hotels, motels and bed and breakfasts can be places to die as well as places for enjoying life," Dr. Lee said. "Whether a death is a suicide, homicide or an accident, it is often nothing that the staff could have prevented. However, when there are doubts about blame for an incident, the way the business presents itself in court can greatly affect its future."

Worst-case scenarios may involve failure to properly maintain a facility and train staff in safety procedures; and those instances in which lodging employees are actual culprits in deaths. The cases examined by Dr. Lee include a 1991 incident in which a New York City hotel was required to pay the husband of a murder victim \$1.1 million for negligence in terms of providing adequate security. The murderer, who was never identified, had entered the woman's room through the door with no sign of force and bludgeoned her to death.



Robert D. Lee Jr., professor in the School of Hotel, Restaurant and Recreation Management, studied lodging-oriented deaths.

Photo: Greg Gricco

In another incident, an Arizona motel was held liable for the death by smoke inhalation of a woman who was not a registered guest. She had been invited to a party in one of the motel's rooms by a registered guest and died when a faulty heating/air-conditioning unit started a fire.

"In this case, the motel proprietor contended the institution had no obligation to the safety of an unregistered guest, and you can see how that fact might cause an image problem for a business," Dr. Lee said. "Managers and owners who try to worm their way out of any possible blame in such cases do themselves more harm than good."

But in other instances, "it is more clearly just a site's bad luck that a death occurred there and it may suffer no lasting stigma on its reputation."

For example, in the 1992 case of Hardnett vs. Marshall, a person was lured to a hotel room and stabbed to death 29 times with a fondue fork, steak knife and letter opener. In the 1993 North Carolina case of State vs. Jennings, a 47-year-old nurse was found guilty of killing her 80-year-old husband in a hotel room. Neither hotel was a party in either case, although employees and patrons may serve as critical witnesses in similar circumstances.

Most tales of lodging fatalities pale in comparison to the legal nightmare set off by the deaths of 97 guests and employees of the DuPont Plaza Hotel in San Juan, Puerto Rico, in 1986. The deaths resulted from a fire deliberately set by three disgruntled employees as payback for the hotel's failure to reach a collective bargaining agreement with the Teamsters Union.

The disaster spawned more than 270 lawsuits in four locales — Puerto Rico, California, Connecticut and New York.

Among other factors in the case was the revelation that at the time of the fire, numerous safety hazards existed, including blocked or locked fire exits, missing exit signs, doors that failed to close automatically and personnel inadequately trained in building evacuation procedures.

"Sometimes a complete change of management is needed as part of the effort to salvage the image of a site where a death or deaths occurred," Dr. Lee said.

"But in less intense cases, simple foresight in terms of preparing proprietors and employees for possible guest deaths may go a long way toward avoiding long-lasting image problems."

Research

Roundup

Rest
also key
to good
health

An epidemiologist and a health educator wanted to know why several recent studies indicated that African Americans exercised less often than whites. They found that African Americans generally considered rest more important to their health than exercise, and even necessary before exercising.

Shiriki Kumanyika, professor of epidemiology at The Milton S. Eisenhower Medical Center, colleagues Collins Airhihenbwa and their co-workers asked 53 African-Americans about their attitudes and perceptions about exercise, rest and health. The volunteers were from an urban, south-central Pennsylvania community. Most earned less than \$20,000 a year.

Dr. Kumanyika, associate director of the Center for Biostatistics and Epidemiology, and her team found that many African-Americans consider their lives stressful enough, and exercising just adds to that stress. Other reasons cited for exercising less frequently include family responsibilities, particularly from single-parent homes, the expense of health clubs and unsafe neighborhoods in which to exercise.

Don't restrict teaching to English

Current attempts to restrict public school teaching to English are badly misguided and overlook extensive research showing the benefits of bilingual education, according to Lourdes Diaz Soto, associate professor of education.

"There is no danger that any ethnic or geographic segment of American society will stop using English. Ninety-eight percent of all Americans speak English for the simple reason that they need it to get ahead socially and economically," Dr. Soto said.

Dr. Soto is author of the book *Language, Culture and Power: Bilingual Families and the Struggle for Quality Education*.

"Bilingualism needs to be discussed in positive rather than negative terms," Dr. Soto said. "First of all, when monolingual speakers command a second — or third — language, they are better positioned to achieve in an increasingly global economy. For economic success in the 21st century, our children need to be prepared linguistically."



Center sponsors panel

A quality improvement panel discussion will explore what it means to be customer driven in an academic environment. Panelists **Peg Spear**, director, University Health Services; **Tom Gibson**, assistant vice president, Auxiliary Services; **Pat Book**, associate dean, C&DE; **Karen Wagner**, manager, marketing and customer service, Business Services; and **Louise Sandmeyer**, executive director, CQI Center, will share perspectives on who Penn State's customers are and how their needs might be identified and met. The panel, which is free to all members of the University community, will be on Feb. 23, from 8:30-10 a.m. in the Nittany Lion Inn Fireside Lounge.

Lecture

Doug Smith, author of *Taking Charge of Change and The Wisdom of Teams*, will present a public lecture at 7:30 p.m. Feb. 28 at Scanticon. Mr. Smith argues that organizations cannot expect to be successful using the same methods that have dominated work during the past 100 years. Instead we must apply a new set of principles and strategies to manage through the period of change.

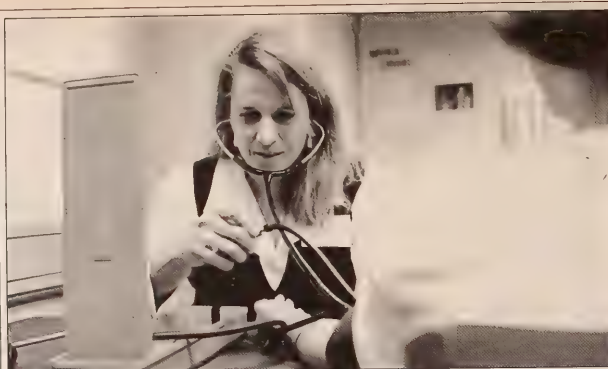
The lecture is sponsored by the CQI Center, the Total Quality Council of Central Pennsylvania, the American Society for Training and Development, Continuing and Distance Education and The Smeal College of Business Administration.

Examiners appointed

Seldon Whitaker, associate professor of education and executive director of the Center for Total Quality Schools, has been invited to serve on the Board of Examiners for the Malcolm Baldrige National Quality Award. **Linda Miller**, graduate student in the College of Education and graduate assistant at the center, has been selected as an examiner for the Pennsylvania Quality Leadership Award.

Reminder: Quality Expo '96 is April 11 from 11 a.m. to 3 p.m. in the Nittany Lion Inn Ballroom.

For more information about continuous quality improvement, please call **Louise Sandmeyer**, executive director of the CQI Center, (814) 863-8721.



Know Your Numbers

Linda Tobin was stationed at the blood pressure screening area at the Know Your Numbers cardiovascular health assessment program, sponsored by the Office of Human Resources. The program includes a cholesterol screening, blood pressure check, body mass indexing, a computerized cardiac risk check and one-on-one interpretation of your results. The next open session screening will take place April 1. For more information, call (814) 865-3085.

Photo: Greg Grieco

Promotions

Staff

John J. Agostino, staff assistant VIII at The Hershey Medical Center.

Debra M. Bennett, administrative assistant IV at The Hershey Medical Center.

Stephen M. Bobar, technician, Research, at The Hershey Medical Center.

Robert J. Carothers, deputy director, Administrative Systems, in Computer and Information Systems, Office of Administrative Systems.

Tami C. Cherry, staff assistant V in College of Education.

Michael A. Contino, manager, Data Backbone Services, in Computer and Information Systems, Telecommunications.

Diane F. Creswell, clinical head nurse at The Hershey Medical Center.

Melissa S. DeLong, staff assistant VI in Continuing and Distance Education.

Lisa R. Duncan, clinical head nurse at The Hershey Medical Center.

Bradford E. Eichler, supervisor, Airport Operations, in Business Services.

John A. Gildersleeve, manager, Respiratory and Ancillary Services, at The Hershey Medical Center.

Stacie L. Gutschall, staff assistant VI in College of Health and Human Development.

Holly C. Harris, director, Student Affairs, at The Hershey Medical Center.

Shannon L. Hoover, staff assistant VI in The Office of the President.

Malinda M. Keath, staff assistant IV at The Hershey Medical Center.

Joyce E. Kovacs, coordinator, Collections, at The Hershey Medical Center.

Connie M. Manchester, administrative assistant I at The Hershey Medical Center.

Susan L. Mann, staff assistant V in Research and Graduate School.

Michael W. Mihailoff, assistant manager, Respiratory and Ancillary Services, at The Hershey Medical Center.

Cynthia J. Miller, staff assistant VII at The Hershey Medical Center.

Jane S. Noel, instructional designer at Penn State Allentown Campus.

Sarah D. Ordille, technician, Research, at The Hershey Medical Center.



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February 29, 1996

Volume 25, Number 24



The magic touch

Jerry E. Homan, pasteurizer operator at the Creamery on the University Park Campus, monitors the flow of ice cream mix through the lines and the pasteurizer before it makes it to the ice cream mixing room. Even during the bitter cold winter months, the Creamery produces more than 40,000 gallons of ice cream and other frozen desserts.

Photo: Greg Grieco

Former U.S. secretary of commerce donates papers to University Archives

Barbara Hackman Franklin, former United States secretary of commerce under President Bush, has chosen the University Archives to house the professional and personal papers relating to her work in government, business, academia, politics and entrepreneurship. These records reflect her pioneering and internationally recognized career in which she has made great contributions in expanding global trade opportunities, improving the safety of consumer products, bringing more women into government and serving as a role model for women in business. Altogether she has served five U.S. presidents.

Currently president and chief executive of Barbara

Franklin Enterprises, a Washington-based investment and international trade consulting firm, Ms. Franklin began her government service in 1971 when President Nixon appointed her to direct the first White House program to recruit women for high-level federal jobs — an effort which resulted in tripling the numbers of women in those positions. In 1973, she was appointed one of the first commissioners of the U.S. Consumer Product Safety Commission. In the 1980s, while serving on the faculty of the Wharton School, she held membership on the boards of directors of seven large American companies and founded the consulting firm of Franklin Associates.

See "Papers" on page 2

Questions answered during statewide telecast

By LISA M. ROSELLINI
editor

The recently announced Plan for the Commonwealth is meant to respond to the "heartfelt" needs of campuses and their students, President **Graham B. Spanier** said Feb. 22 during a 75-minute satellite teleconference to all 23 University locations across the state.

During the telecast, set up to provide the University community with another avenue for communicating directly with the administration, Dr. Spanier emphasized that support and implementation of the plan will be a "bottom up" process — with campuses taking the lead in determining the programming that best fits their regions. The president said the plan will take five years to phase in, but much progress can be made this spring.

President Spanier, along with **Robert E. Dunham**, senior vice president and dean for the Commonwealth Educational System, and **John Brighton**, executive vice president and provost, fielded queries from faculty, staff and students across the state, who called in with a wide range of questions about the draft plan recently released.

The plan, designed to give campuses more autonomy and degree-program authority, would create a 12-campus Commonwealth College — which will be the largest college in the Penn State system — while allowing at least two other campuses, Altoona and Abington-Ogontz, to become four-year Penn State locations. Under the proposal, Penn State Harrisburg will merge with the Schuylkill Campus to form a two-campus Capital College and Berks and Allentown campuses will unite

See "Teleconference" on page 3

Inside



Inside a volcano

By studying the remains of villages hit by volcanic eruptions, Penn State researchers are uncovering clues to future hazards for those who still live in the shadow of an active volcano.

See page 15.



The College of Engineering celebrates 100 years of growth this year. For more information on the kickoff event and the college's history, turn to the back page.

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DIVERSITY

Diversity Briefs

Movie tonight

Penn State will be host for the world premiere of the film "Harlem Diary: Nine Voices of Resilience" tonight at 7, in Eisenhower Auditorium, as part of the University's Black History Month celebrations.

A collaborative effort by author **Terry Williams** and filmmaker **Jonathan Stack**, "Harlem Diary" grew out of Mr. Williams' book *The Uptown Kids: Struggle and Hope in the Projects*. The book is a collection of journals written in 1989 by a group of Harlem children and youths describing their life stories. Mr. Stack later used the book as a launch pad for the film and decided to replace the contributors' pen and paper with video cameras.

"Harlem Diary" is narrated by Mr. Stack, who weaves together the stories the nine young individuals constructed with their cameras.

Stark and Williams will attend the screening and field questions about the film during a discussion afterward.

The free screening of "Harlem Diary" is presented by the College of Education. **Henry A. Giroux**, Waterbury Chair Professor in the college, was instrumental in bringing the film and its director and producer to Penn State. In addition, **James Stewart**, vice provost for educational equity, **Larry Young**, director of the Paul Robeson Cultural Center, and **Reggie Brooks**, minority director for the College of Education, all helped fund the event.

Rainbow Forums planned

A series of Rainbow Forums to discuss gay, lesbian and bisexual issues that concern faculty and graduate assistants will begin March 15 in the Wilkinson Lounge of the Eisenhower Chapel on the University Park Campus. This forum will focus on integrating gay, lesbian and bisexual issues into curricula. A second forum, set for March 29, will look at research on gay, lesbian and bisexual issues. Both events will be held from 3:30 to 5 p.m. Anyone interested in attending should contact (814) 865-3387 for more information.



Traditional gathering

During a Thai wedding ceremony performed by the Thai Student Association, the father of the groom, played by Methawut Peeraopornvorn, a doctoral candidate in training and development, blesses the couple by pouring water over their hands and saying a blessing. The bride is played by Pornsuee Konanta, a graduate student in agriculture economics and the groom is Sirichai Panichyanont, an undergraduate student in finance. The wedding ceremony and a blessing dance took place Feb. 23 in the HUB Ballroom on the University Park Campus. It was part of the 22nd International Festival, which also featured an International Food Fair and Exhibition with authentic Thai food and cultural displays.

Photo: Kristie Guldner

Papers

continued from page 1

During this time she also served four terms, by appointment of presidents Reagan and Bush, on the Advisory Committee for Trade Policy and Negotiations, and was a public delegate to the United Nations General Assembly. When President Bush appointed her the 29th secretary of commerce in late 1991, Ms. Franklin became the highest-ranking woman in the administration. She achieved a major goal — increasing American exports — with emphasis on market-opening initiatives in Germany, Russia, Japan and Mexico. Of special note was her historic mission to China in 1992 which normalized commercial relations with that country.

"We are very pleased to receive the papers of this distinguished alumna," Nancy M. Clime, dean of the University Libraries, said. "Throughout her career, which is by no means over, Barbara Hackman Franklin has had a significant influence in the policy arenas of government, industry and inter-

national trade and at the same time, has dedicated considerable effort to improving opportunities for women. Her collected papers will provide a rich collection for scholars of public policy and offer insight to the challenges facing those who seek careers in public service."

Ms. Franklin has been honored by Penn State as one of the youngest recipients of the University's Distinguished Alumni Award and as an Alumni Fellow of the College of the Liberal Arts. She has also served two terms as a member of the Board of Trustees, has served on the Alumni Council and is a life member of the Alumni Association.

A native of Lancaster, Pa., she earned a bachelor's degree with distinction in political science from Penn State and was one of the first women to receive a master's degree from the Harvard Graduate School of Business Administration.

Former NRC commissioner donates personal papers

Forrest J. Remick, former associate vice president for research and graduate studies and professor of nuclear engineering, has donated personal papers from his service as a commissioner of the United States Nuclear Regulatory Commission (NRC). Also included in the gift to the University Archives are non-NRC materials such as monographs, periodicals and newsletters relating to nuclear power and engineering.

Dr. Remick's term on the commission ended in 1994 after a five-year appointment by President George Bush. While serving his term, he was appointed chair of the NRC's Advisory Commission on Reactor Safeguards.

Since beginning his career in 1956, Dr. Remick has held numerous Penn State research and

administrative positions. He was acting director for the nuclear reactor facility, the Curtiss-Wright Nuclear Research Laboratory, the Institute for Science and Engineering and the Intercollegiate Research Programs.

In addition, he has held many national positions in nuclear research, training and regulation, including administrative judge with the NRC's Atomic Safety and Licensing Board, director of the NRC Office of Policy Evaluation and member of the National Nuclear Accrediting Board.

A Lock Haven native, Dr. Remick received his bachelor's, master's and doctoral degrees in mechanical engineering from Penn State and is a graduate of the Oak Ridge School of Reactor Technology.

Teleconference

continued from page 1

and possibly form another four-year college. Penn State Erie, The Behrend College will continue its present mission.

"This plan is not about cutting back," Dr. Spanier said. "This plan is about students and creating opportunities for students, particularly location-bound students, to acquire an education. This is about real locating resources and being more productive."

Because anticipated growth for the University over the next decade is expected to be, first, in the area of continuing and distance education and, second, in resident instruction at campuses other than University Park, campuses must now begin to designate areas where they can increase their continuing education and upper-level baccalaureate degree program offerings.

"We hope that with planning that is responsive to student needs, more students will wish to voluntarily stay (at campuses other than University Park) and this will change the overall enrollment profile at Penn State," Dr. Spanier said. "Some students around the state have expressed strong feelings that they can't move to University Park because of jobs or family and they want to remain on the local campus and complete a four-year degree."

Dr. Spanier emphasized, however, that students at any Penn State location will continue to be able to move to any other upper-division location, including University Park.

Both Drs. Spanier and Dunham said the plan now on the table is a direct response to the academic needs expressed by students and faculty, and is an answer to the campuses' desire for more independence.

"What is exciting about this concept for me is that it eliminates the CES operation as an administrative structure—a bureaucracy if you will," Dr. Spanier said. "It would be replaced by an academic structure headed by a dean. I see this as an elevation of the entire CES, opening doors directly that were closed before."

In relation to questions about how new programs will be funded, the president again stated that the expansion will need to be financed principally through tuition income associated with increased enrollments, according to the formula currently in place, as well as through internal campus reallocations.

"The lion's share of tuition income generated will go back to the location from where it came," he said. "Campuses will get their fair share of the state appropriation, but we are not incredibly optimistic about the state funding situation. We feel we're going to have to do this reorganization independent of state support."

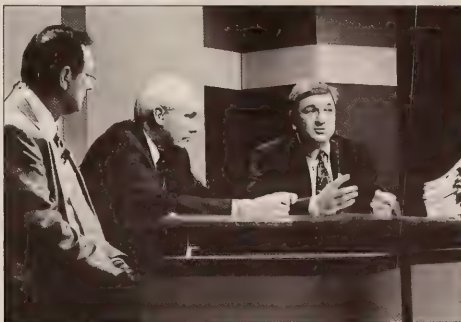
Other funding, such as the University Libraries, would have to be re-evaluated, according to Dr. Spanier, because of the inevitable increased usage of the Libraries' facilities.

On issues of the continued quality and consistency of academic programs and the quality of a Penn State degree from any location, Dr. Spanier firmly stated that the University Faculty Senate would still oversee the approval of programs and would not allow any degradation to occur. He also noted that faculty appointments are viewed equally.

"It is our intent that a Penn State

Need more?

For more information about the Plan for the Commonwealth or for more detailed answers to some of the questions answered by Dr. Spanier, log-in to "Redesigning the University" at URL <http://www.pubinfo.psu.edu> on the World Wide Web, the home page of the Office of University Relations.



Open forum

John Brighton, left, Robert E. Dunham and President Spanier answer questions from around the state during the Feb. 22 teleconference on The Plan for the Commonwealth

Photo: Greg Grieco

"This plan is not about cutting back. This plan is about students and creating opportunities for students, particularly location-bound students, to acquire an education."

— President Spanier

degree from any location will carry the same level of quality," he said. "I believe Penn State is one university, geographically dispersed. We are one faculty. Period."

Questions about the flexibility of the plan were also addressed by the president, who said in his initial comments that the plan is not set in stone and "very few things are non-negotiable."

The next step in the process is for campuses to develop by mid-April their actual plan and to specify programs they wish to pursue. The plan should include an integrative recruitment, enrollment, budget and program outline. Dr. Brighton said the University Planning Council, the body charged with devising a strategic plan to guide the University into the 21st century, has reviewed the initial draft of the Plan for the Commonwealth and believes the proposal sets Penn State on the right course.

"I am convinced that Penn State is capable of making any of this happen if we set our minds to it," he said.

Commencement dates change beginning in fall

Beginning with the fall 1996 commencement, all summer and fall semester commencement ceremonies at the University Park Campus will be held immediately following the final exam period.

"The permanent change has been made after wide consultation with faculty, students and staff at all locations," John Cahir, vice provost and dean for undergraduate education, said. "This schedule will be more convenient for students and their families, greatly reducing the need for return trips to University Park, especially in January when driving conditions are more likely to be poor."

Another change is that since final graduation lists will not be completed in time for the ceremony, diplomas for summer and fall semester commencements will be mailed to all undergraduate students within a few weeks. This will take effect with the summer 1996 commencement this August.

The fall commencement 1996 ceremony at University Park will be held on Sunday, Dec. 15, rather than Jan. 11, 1997, in the Bryce Jordan Center. Summer 1996 commencement at University Park will be held Aug. 10, with ceremonies for undergraduate and associate degrees taking place in the Bryce Jordan Center at 10:30 a.m. and 2 p.m. reserved for the Graduate School in Eisenhower Auditorium.

Final exam scheduling will not be affected by this change. No changes are anticipated for any of the spring commencements at other locations; diplomas will continue to be distributed at all spring commencements at the end of an academic year.

"We will be monitoring these changes to ensure that the ceremonies serve students, families and guests," Dr. Cahir said. "But the new changes allow students to start new jobs as soon as possible and will ease any inconvenience for graduating students and their families."

CARPPOOLERS

Riders wanted for vanpool from Houtdale to Osceola Mills to Philipsburg to University Park. Call 865-1495, 8 a.m. to 5 p.m. or call 378-5391 after 6 p.m. and weekends.

Riders wanted for vanpool from Philipsburg area to University Park. Work hours are 7:30 a.m.-4:30 p.m. Monday through Friday. Call Sharona at 865-1255 or 342-7296 (after 5:30 p.m.).

LECTURES

Harrisburg announces 1996 lecture series

John Muscarella, a member of the Sprint Corp. business division, will speak about "Strategic Alliances—Foreign and Domestic: A Case Study in the Telecommunications Industry" at noon Tuesday, March 5, at the Penn State Harrisburg Eastgate Center. The lecture is part of the 1996 Penn State Harrisburg School of Business Administration "Current Issues in Business" lecture series.

Mr. Muscarella's presentation will describe how one telecommunications company has used domestic and international alliances to position itself in the domestic market and take advantage of pending international deregulation. Points of discussion will include the telecommunications environment, achieving the corporate vision, capitalizing on opportunities with the recently auctioned telecommunications licenses, market approach of the domestic telecommunications venture, international opportunities with the deregulation of the communications industry and global alliance strategy for success.

Mr. Muscarella is responsible for accounts many of the Fortune 500 companies in central Pennsylvania hold with Sprint. He earned his B.S. from Shippensburg University and an MBA from Penn State Harrisburg. He has been employed by Sprint for three years and serves as adjunct instructor at Penn State Harrisburg.

Other lectures in the series are:
■ April 10: "Does Where You Work Make a Difference? Employer Characteristics and Employee Income," Jacob De Rooy, associate professor of economics, Penn State Harrisburg, presenter.

■ May 7: "Establishing a Quality Control Program: A Case Study," Beth Witmer, marketing analyst with AMP Inc., presenter.

■ June 12: "Cooperation as Competitive Advantage," Carolyn R. Dexter, professor of management, Penn State Harrisburg, presenter.

■ Sept. 11: "Mergers and Acquisitions: Employees' vs. Investors' Interests," Sudhir Nanda, assistant professor of finance, Penn State Harrisburg, presenter.

■ Oct. 9: "Organizational Culture and Employee Participation," David Morand, assistant professor of management, Penn State Harrisburg, presenter.

■ Nov. 12: "Promises and Pitfalls of Changes in Tax Policies," Jean Harris, assistant professor of accounting, Penn State Harrisburg, presenter.

■ Dec. 3: "Market Trends in Health Care," C.M. Gallaher, regulatory affairs director, Pennsylvania Blue Shield, presenter.

All lectures will be held at noon at the Penn State Harrisburg Eastgate Center. To register, call (717) 372-3590.

Program readies graduating med students for "real world"

In an effort to help prepare fourth-year medical students, residents and their spouses for the financial realities that will face them upon leaving medical school, the Office of Student Affairs of The College of Medicine at The Hershey Medical Center will offer a program titled "Future Shock: Financial Planning Program for Senior Medical Students, Residents and Others," from 9 a.m. to 5 p.m. on Tuesday, March 19, in the hospital auditorium.

This pilot program is co-sponsored by The Education and Scientific Trust (TEST) of The Pennsylvania Medical Society and hospital administration. A similar program may be developed by TEST to take across the state to other medical students.

According to Kathleen Greider, financial aid counselor, "Often, medical students and residents do not have a true concept of their responsibilities once they leave medical school."

"They may be interested in setting up a business, have concerns about medical malpractice insurance or a host of other issues. We believe this seminar will help to prepare students and residents for their future."

Ms. Greider encourages students and residents whose schedules may not permit attendance for the entire day to drop in on as many sessions as possible or to invite a spouse to attend.

Participants also will have the opportunity to meet with presenters during lunch and breaks.

Professor to speak on protein-DNA interaction

M. Thomas Record, John D. Ferry Professor of chemistry and biochemistry at the University of Wisconsin at Madison, will present the 1996 Ernest C. Pollard Lecture at 4 p.m. Monday, March 11, in 117 Osmond Laboratory on the University Park Campus.

The lecture, titled "Site-Specific Protein-DNA Interactions Involved in Control of Transcription Initiation: Equilibrium and Kinetic Studies of Lac Repressor-Operator and RNA Polymerase-Promoter Interactions," is sponsored by the Department of Biochemistry and Molecular Biology and is open to the public.

Dr. Record's research focuses on in vitro and in vivo studies of the noncovalent interactions of proteins and DNA that are responsible for their biologically relevant structures and functions. His research group is investigating fundamental questions regarding the stability and specificity of protein-DNA complexes and the mechanisms by which they form.

He received his B.A. degree in chemistry from Yale University in 1964 and his Ph.D. in biochemistry at the University of California at San Diego in 1967. He was awarded an NSF Graduate Fellowship for research at Stanford University from 1968 to 1970, when he



M. Thomas Record

joined the faculty at the University of Wisconsin.

He has received Phi Beta Kappa and University of Wisconsin faculty teaching awards for his biophysical chemistry courses and has been elected a Fellow of the American Association for the Advancement of Science.

The Ernest C. Pollard Lecture is

named in honor of Ernest C. Pollard, who taught as a professor of physics at Penn State from 1961 to 1971 and founded the Department of Biophysics. The lecture is made possible through donations from his friends, colleagues and associates.

The Department of Biochemistry and Molecular Biology has incorporated the Pollard Lecture into a program of spring 1996 lectures.

The remaining lectures in the series are the Russell Marker Lectures in Genetic Engineering sponsored by the Eberly College of Science, featuring Ira Herskowitz of the University of California at San Francisco, scheduled for March 25-27; and the Stone Memorial Lecture sponsored by the Department of Biochemistry and Molecular Biology, featuring Carol Gross of the University of California at San Francisco, scheduled for April 24.

NSF workshop focuses on change in graduate education

Penn State and the National Science Foundation will be host for a workshop March 12 at The Penn State Scanticon to discuss the changing environment for research and graduate education in the biological sciences.

Invited faculty, students and administrators will discuss how biological scientists are responding to greater teaching loads, reduced funding opportunities, a shrinking employment base and the explosion in information technology and sources.

NSF will use the input to formulate an agenda for a national forum, to be held next year, on ways universities can respond to these pressures, such as shifting from an emphasis on individual researchers to promoting team approaches in graduate training and interdisciplinary research.

Biological sciences have been slow in adopting team approaches, Nina Fedoroff, head of both the

Interim Faculty Steering Committee of the Life Sciences Consortium and director of the Biotechnology Institute, said. She helped organize the workshop, as a member and chair designate of the advisory committee to the NSF Biological Directorate.

NSF wants to redefine and renew its pact with universities to maintain vitality in the biological sciences under increasing budgetary constraints, Dr. Fedoroff said. That's why NSF seeks input on how current pressures affect the lives and careers of biological scientists and what changes are needed both in the University's reward structure and in the way that government funding agencies provide funding to best meet the needs of the University's changing mission, she said.

The workshop will open with remarks by President Graham B. Spanier, John Brighton, executive vice president and interim, and Mary Clutter, director of NSF's Biological Directorate.

More Lectures

Land-grant colleges are topic of lecture

The 1996 College of Agricultural Sciences Distinguished Lecture Series will be given by **Robert Thompson**, president and CEO of Winrock International, a non-profit corporation responsible for agricultural and rural development projects in more than 30 countries. The corporation specializes in agricultural productivity, forestry and natural resource management, rural employment and enterprise development, renewable energy and women's leadership.

Dr. Thompson will lecture on "A Vision of the Future of Land-Grant Colleges: Research, Education and Outreach," at 7:30 p.m. Monday, April 8, in 101 Agricultural Sciences and Industries Building on the University Park Campus. He also will deliver a technical lecture on "World Food Demand, Agricultural Research and the Environment: The Essential Nexus," at 10:30 a.m. Monday, April 8, in 101 ASI. The lectures, hosted by the college's agricultural economics and rural sociology department, are open to the public. Dr. Thompson was named president of Winrock in 1993. He served



Robert Thompson

as dean of agriculture at Purdue University from 1987 to 1993 and was professor of agricultural economics from 1974 to 1993. He was assistant secretary for economics in the U.S. Department of Agriculture from 1985 to 1987 and served as senior staff economist for food and agriculture on the President's Council of Economic Advisers from 1983 to 1985.

He received the USDA Justin Morrill Smith Award in 1992 and was named a Sagamore of the Wabash, Indiana's highest honor, in 1993.

He earned a bachelor's degree in agricultural economics from Cornell University and received his master's and doctorate in agricultural economics from Purdue University. He received the 1993 Agriculture Conservation Award from the Indiana Wildlife Federation and the USDA Superior Service Award in 1989.

He serves as president of the International Association of Agricultural Economists and is a fellow of the American Agricultural Economics Association and the American Association for the Advancement of Science.

Sigma Xi sponsors two science talks

Two lectures, sponsored by Sigma Xi Penn State — the local chapter of the scientific research society — are scheduled for March on the University Park Campus.

They include:
■ **David Bubenheim**, chief scientist for regenerative life support systems research and technology development, NASA Ames Research Center, who will speak at

3:45 p.m. Thursday, March 21, in 108 Wartick Lab. His topic is "Controlled Ecological Life Support Systems: Space Exploration Tomorrow — Clean Water and Fresh Food Today."

■ **James Marden**, assistant professor of biology at Penn State, will discuss "Evolution of Wings and Flight in Insects" at noon April 18, in 305 HUB.

Cognitive speaker slated for March 28

John Duncan, senior scientist at the Applied Psychology Unit of the Medical Research Council in Cambridge, England, will present "The Cognitive Neuroscience of Selective Attention" at 4 p.m. Thursday, March 28, in 112 Kern on the University Park Campus. The talk will focus on Dr. Duncan's pioneering research on the mechanisms used by the brain to control visual attention, cognition and action. Dr. Duncan is author of many

influential articles in cognitive psychology and cognitive neuroscience. He is known internationally for his experimental studies of attentional phenomena, both in normal and clinical populations.

His talk is the fourth in a Distinguished Cognitive Speaker Series this year. The series is made possible by a grant from the Research and Graduate Studies Office in the College of the Liberal Arts.

CWS plans full slate of talks, films for spring

The Center for Women Students, along with other University organizations, has scheduled for the spring semester a series of lectures, discussions and films on the University Park Campus that are open to all members of the community.

The programs for March include:

■ "One Woman, One Vote," a PBS film documenting the battle for woman suffrage and also portraying the movement's leaders, at 7 p.m. Wednesday, March 13, in 104 Classroom Building. A discussion will follow.

■ "Myths and Realities of Lesbian, Gay, Bisexual Power and Powerlessness in American Politics," presented by **Ken Shell**, professor of political science at the City University of New York. This is part of the contemporary scholarship on lesbian and gay lives speaker series. Begins at 7 p.m. Monday, March 18, in a location to be announced.

■ "Defending Our Lives," a film that examines domestic violence by exploring the lives of eight women who killed their abusive partners and are currently serving prison terms, will be shown at 7 p.m. Tuesday, March 19. Facilitated by community education coordinator **Greta Ehrig** and the Centre County Women's Resource Center, it will be in 102 Classroom Building.

■ "Issues of Women with Disabilities, Part II," presented by **Mary T. Franks**, coordinator of Americans with Disabilities Act, and other disability advocates. This is part of the CWS brown-bag lunch series; from noon to 1 p.m. Wednesday, March 20, in 102 Classroom Building.

■ "Building Bridges Through Education, Awareness and Cultural Sensitivity," to be held Monday through Thursday, March 25-28. The schedule of events will be announced later.

■ "Diversity Issues and How to Collaborate in Forming Multicultural Environments," presented by **Marian Wright Edelman**, founder and president of the Children's Defense Fund, begins at 8 p.m. Wednesday, March 27, in Eisenhower Auditorium.

Programs for April include:

■ "Out in Suburbia," a film featuring 11 lesbians who speak candidly about prejudice, their families' reactions to their sexual orientation and issues regarding stereotypes due to sexual identity. A discussion will follow the presentation. Part of the CWS brown-bag lunch series, the presentation is facilitated by **Sabrina Chapman**, director of the Center for Women Students. Event begins at noon Wednesday, April 3, in 120 Boucke Building.

■ "The Relationship Between Women's Studies and Women in the Sciences and Engineering Program," presented by **Sue Rosser**, senior program officer for women's programs at the National Science Foundation. This is part of the Women's Studies feminist lecture series. Lecture is set for 2:30 p.m. Thursday, April 18, in a location to be announced.

■ "Take Our Daughters to Work Day" on Thursday, April 25. Details will be announced later.

■ "Take Back the Night March," sponsored by **Womyn's Concerns**. Date, time and place to be announced.

California dean to talk about nutrition science and policy

Barbara O. Schneeman, dean of the College of Agricultural and Environmental Sciences at the University of California at Davis, will present the E.A. Day Lecture in Food Science at 3:30 p.m. Monday March 25, in Room 101 Agricultural Sciences and Industries Building on the University Park Campus. The title of her talk is "Nutrition Science and Policy: Developing the Dietary Guidelines."

Dr. Schneeman assumed her current position after serving as associate dean of the college and chair of the Department of Nutrition at the University of California at Davis. Her research interests include the physiological and nutritional effects of carbohydrates and fiber in the diet using both animal models and human clinical studies.

A member of the Institute of Food Technologists and the American Institute of Nutrition, she received the Samuel Cate Prescott Award for Research from the Institute of Food Technologists in 1985. She has served on numerous national committees, including the Advisory Committee to the Secretaries of Agriculture and Health and Human Services for the Dietary Guidelines for Americans from 1989-1990 and 1994-1995.

The annual lecture honors the late **Edgar A. Day**, executive vice president of International Flavors and Fragrances Inc., who received his M.S. and Ph.D. degrees from Penn State in 1955 and 1957. Before his death in 1973, he was affiliated with the University of Maryland and Oregon State University.

More Lectures

Social Work Month prompts series of Hershey Medical Center lectures

In recognition of Social Work Month in March, the Department of Social Work at The Hershey Medical Center will hold an eight-lecture series to increase awareness of social work roles in various settings.

Participants in the sessions can earn social work credit hours at the rate of three per day or 12 for attending the entire series. In addition, the College of Health and Human Development will award continuing education units. Pre-registration is required. The lectures, scheduled for Tuesday mornings in March from 8 a.m. to noon, include:

- **March 5**
Working with Families of Chronic Mental Illness Patients — presented by **Charles P. Gilbert II**, instructor/chief, psychiatric social work, The Hershey Medical Center;
- Domestic Violence Assessment — presented by **Bobbi Corn**, medical social worker, Abington Memorial Hospital;
- **March 12**
Social Work with HIV/AIDS Patients — given by **Marion Markowicz**, The Hershey Medical Center;

■ Social Work with Adult Cancer Patients in a Community Setting — presented by **Shan-dee Clapper**, medical social worker, Chambersburg Hospital.

■ **March 19**
Geriatric Assessment — presented by **Lynne Nessel**, medical social worker, The Hershey Medical Center;

■ Guardianship vs. Power of Attorney — presented by **Nancy Lipton**, associate legal counsel for Capital Health Systems and assistant professor of law, Dickinson School of Law.

■ **March 26**
Child Abuse Assessment and Intervention — presented by **Pamela McDermott**, social worker, child protection team, The Hershey Medical Center;

■ Family Dynamics and the Trauma Patient — given by **Cathy Engledow**, social worker in the trauma unit, Lancaster General Hospital.

For registration and fee information, contact Hershey's Department of Continuing Education at (717) 531-6596.

Public school reward programs, policy focus of lecture by Duke professor

Charles T. Clotfelter, Z. Smith Reynolds Professor of public policy studies and professor of economics at Duke University, will present "Picking Winners: Recognition and Reward Programs for Public Schools" at 1 p.m. Thursday, March 14, in the Gallery at the Hetzel Union Building on the University Park Campus.

Dr. Clotfelter is an expert in the economics of education, tax policy and the economics of lotteries. He has published many papers in these areas and written four books, the latest of which, *Buying the Bet: Cost Escalation in Elite Higher Education*, is soon to be published

by Princeton University Press. Dr. Clotfelter received his Ph.D. from Harvard University in 1974 and has been at Duke since 1979, including service as vice provost and vice chancellor.

He has also served in the U.S. Treasury Department and is a research associate at the National Bureau for Economic Research.

Dr. Clotfelter's presentation is the second in the 1995-96 Seminar Series sponsored by the Department of Economics and the Institute for Policy Research and Evaluation.

For more information, please contact **Mark Wilhelm** at (814) 863-7416.

Final science lecture to look at alien life forms

The final lecture in the 1996 Penn State Lectures on Frontiers of Science, titled "Alien Life Forms on Earth," will be given on March 16 by **Charles R. Fisher**, associate professor of biology. Dr. Fisher will describe the alien life forms clustering around hydrothermal vents at the bottom of the ocean over one mile below the surface — and the evolutionary adaptations that allow these animals to flourish.

The lecture, scheduled for 11 a.m. in Room 104 Classroom Building on the University Park Campus, is sponsored by the Eberly College of Science. Parking is available at the HUB Deck parking garage on Shortridge Road. For more information, contact the Eberly College of Science Office of Public Information by telephone at (814) 863-8453 or (814) 863-4682, or by e-mail at science@psu.edu.



Mini-conference set for child-care providers, parents

"Keeping Children Healthy and Safe," a mini-conference for child-care providers and parents, will be held from 8 a.m. to 5 p.m. Saturday, March 23 at the Penn State Worthington Scranton Campus.

The conference will include workshops on first aid, CPR, food safety, child proofing the environment, childhood illnesses, raising an emotionally healthy child and many other topics.

For more information on the conference fee or the program, sponsored by the campus, Keystone College and Penn State Cooperative Extension, contact (717) 963-4761.

Major medical claims

March 31 is the last date HealthAmerica will accept charges for a 1995 major medical claim from University faculty and staff members or their dependents. A major medical

EMPLOYEE BENEFITS

A regular column provided by the Office of Human Resources

claim is established when a faculty or staff member reports eligible charges to HealthAmerica which exceed the health-care plan deductible.

Charges that are acceptable for a major medical claim include doctors' office calls, prescribed drugs, private duty nursing (if medically necessary), local ambulance services, oxygen, physiotherapy, insulin and special equipment and appliances. Among charges not covered are routine physical exams, dental work, eye exams and lenses.

Itemized receipts should be obtained for eligible charges and submitted to HealthAmerica. Canceled checks and cash register receipts are not acceptable evidence of charges incurred.

Health care claim forms are available from HealthAmerica, 1850 E. Park Avenue, State College, Pa. 16803, (814) 231-8970, (800) 366-6433; or The Employee Benefits Division, Room 205 Rider Building, (814) 865-1473, e-mail to bene@psuadmin. Any additional information on how to report a major medical claim may be requested from HealthAmerica.

Flexible benefits

As a reminder to faculty and staff who participated in either or both of the flex plans — Flexible Benefits Health Care Reimbursement Account or Dependent Care Reimbursement Account — the deadline for filing reimbursement claims for 1995 expenses is March 31. To be eligible for reimbursement from funds set aside in 1995, the service must have been provided during calendar year 1995, regardless of when payment was made.

If you incurred reimbursable medical expenses late in 1995 and have not received the "Explanation of Benefit" forms from HealthAmerica or any other insurance carrier, you may request an extension beyond the March 31 deadline. Your request for an extension must be in writing and must be received in the Employee Benefits Division, Room 205 Rider Building, 120 South Burrows Street, University Park, Pa. 16801 before March 31. Requests for extensions may also be e-mailed to bene@psuadmin.

Flexible Benefits reimbursement must be received by the Employee Benefits Division by the first working day of the month in order to receive a check for that month.

Acceptable documentation for medical claims are the original "Explanation of Benefit" forms for medical, dental or vision claims. Requests for dependent care reimbursement must be accompanied by the original signed receipt.

Photocopies, canceled checks, credit card receipts and cash register receipts are not acceptable forms of documentation for either reimbursement account.

If you have questions regarding eligibility for reimbursement or need assistance in completing the request for reimbursement form, please contact the Employee Benefits Division at (814) 865-1473 or by e-mail at bene@psuadmin.

News in Brief

Lunchtime worship service

The Penn State Catholic Community will celebrate an additional Mass (besides the regularly scheduled 9:15 a.m. and 5:05 p.m. daily Masses) every weekday during Lent at 12:15 p.m. in the Roman Catholic Chapel at Eisenhower Chapel. This service is offered for faculty and staff who seek more opportunities for prayer and worship during Lent. Questions can be directed to the Penn State Catholic Community office at (814) 865-4281.

Culinary Hearts Kitchen

In this six-week hands-on series, learn how to cut fat, cholesterol and calories from your family's meals without sacrificing taste or time.

Meets 4-6 p.m. Wednesdays, March 13-April 17, in 7 Henderson Building. The cost is \$40, reimbursable to HMO participants. This is also a shared-time program. To register, contact **Jan Hawbaker** at (814) 865-3085 or jah3@psu.edu.

GIS meeting

There will be a meeting of all individuals and organizations interested in the geographic information sciences at noon March 19, in Room 113 Land and Water Research Building on the University Park Campus.

Chris Cappelli, ESRI-Philadelphia, will make a presentation on ESRI's spatial data engine software. Business topics to be discussed at the meeting will include Penn State's geographic information sciences WWW site and input for the national UCGIS research agenda. Bring your lunch. For more information contact **Todd Bacastow** at (814) 863-5541 or by e-mail at bacastow@gis.psu.edu.

Dataswitch conversion offer

The Office of Telecommunications will discontinue the current Dataswitch Service at the University Park Campus as of June 30. Currently, about 255 people who do not have access to the backbone through a local area network use Dataswitch Service which allows them to communicate on the Internet.

Anyone using Dataswitch Service who still requires low-speed asynchronous data services is being asked to switch to an alternative service called Serial Individual Backbone Connection (Serial IBC). If you need your current connection to be converted to the Serial IBC service, you must contact your OTC communications analyst or OTC's business office at (814) 863-8311 and place your order by April 1. You will need to supply contact information along with your circuit ID.

A charge of \$1,000 will be incurred on conversion orders placed after April 1 and OTC cannot guarantee that all orders submitted after that date will be completed before the cut-off. Conversion orders placed on or before April 1 are free of charge.

Faculty/Staff Alerts

Sigma Xi seeks members

The Sigma Xi Penn State Chapter, a local chapter of an international honor society devoted to promoting research and understanding among scientists and the public, is seeking new members. Anyone interested in joining or needing more information should contact **Pat Gong** at (814) 863-9963 or (814) 237-0671; or by fax at (814) 863-7963.

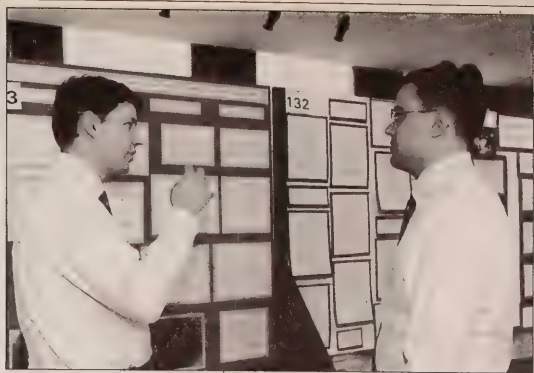
Sigma Xi Penn State's members mostly reside in central Pennsylvania, although some members have moved from the area and still retain their affiliation. At 3:30 p.m. on Wednesday, March 20, in the Alumni Lounge of the Nittany Lion Inn an initiation ceremony for new initiates and active members will be held. Keynote speak-

er for the event will be Robert Custard, retired university patent counsel, who will speak on "Intellectual Properties: Inventions' Effect on Society."

Maps available

A new edition of The Historic Penn State, a University Park Campus map that shows the location of more than 40 historical markers and highlights the buildings that are on the National Register of Historic Places, has been published by the Office of University Relations with financial support from the Alumni Association.

The map may be obtained without charge from 301 Old Main, (814) 863-4512, or by e-mailing **Michael Bezilla** at mxb13@psu.edu.



Mark your calendar

The 11th annual Graduate Research Exhibition will take place March 15-16 in the Hetzel Union Building Ballroom on the University Park Campus.

Photo: courtesy of the Research and Graduate School

Faculty Handbook now available online

To get your copy

Accessing the *Faculty Handbook* on Gopher:

- 1) At the Penn State home page select "Gopher"
- 2) At the Gopher menu select "Penn State Information," then "Documents-University Document Register," then "Faculty Handbook."

In the past, copies of the handbook were provided to each faculty member, but accessing the document on Gopher will allow for more timely updating of information and wider accessibility. Faculty who are unable to access Gopher can obtain a copy through their human resource representatives or, in the case of faculty at Commonwealth Cam-

pus, the director of business services. All administrative units of the University have been provided with a copy of the *Faculty Handbook*.

Information for inclusion in the *Faculty Handbook* should be sent to **Ginny Newman** at GAN1@PSU.EDU.

Regional trade show

"Preview '97," a regional trade show, will be open to the general public on June 14, 15 and 16 at the Bryce Jordan Center on the University Park Campus and vendor applications are currently being accepted for both spaces.

This regional business event, sponsored by numerous area chambers of commerce, visitors bureaus and economic development agencies, will host businesses from throughout central Pennsylvania, who will display new services and merchandise available in the coming year. Products and services from a wide variety of industries will be shown. In addition, conference rooms will be available for holding demonstrations or seminars. Anyone interested in obtaining

more information or reserving a booth, should contact **Robb Larson** or **Karen Pagan** at the Jordan Center at (814) 863-5503.

Upcoming HRDC courses

Several courses are being offered by the Human Resource Development Center. To see a description of each course, check the HRDC course catalog sent to all University employees at the start of the semester or log in to the Intercom Web site from the home page of the Office of University Relations at [URL http://www.pubinfo.oud.psu.edu](http://www.pubinfo.oud.psu.edu).

To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

The ARTS

AT PENN STATE

Pennsylvania Centre Stage

Pennsylvania Centre Stage, the summer professional theatre at Penn State, has announced its 1996 season. The season features four plays appealing to the whole family: "The Beeples," "Forever Plaid," "Man of La Mancha" and the United States premiere of "The Baby Blues."

The season begins with an adventurous children's show, "The Beeples." John Willy Entwistle blasts off in a homemade spaceship and finds himself in the land of Hex. He quickly finds himself in trouble with the "bee people" who populate the land.

Department of Theatre faculty member **Helen Manfull** directs the production. "The Beeples" will play nine shows May 17, 18, 23, 24 and 25 in the Pavilion Theatre.

In "Forever Plaid," four amateur singers are killed on their way to their first-ever concert gig in 1964. Twenty-six years later, they are allowed to return to earth to give the concert they were denied. **Neal Kenyon**, director of the New York City hit "Dames at Sea," directs the production.

"Forever Plaid" will be performed at 8 p.m. June 14, 15, 18-22 and 25-29 in the Pavilion Theatre. Previews are 8 p.m. June 12 and 13; Saturday matinees will be performed June 22 and 29.

Don Quixote — the mad knight with a heart of gold — has become one of the most enduring characters in literature. His adventures are soulfully portrayed in "Man of La Mancha," itself a classic of musical theatre.

Dan Carter, artistic director for Centre Stage, directs the production, which plays at 8 p.m. June 28, 29, July 2-6 and 9-13 in The Playhouse. Previews will be 8 p.m. June 26 and 27; Saturday matinees are 2 p.m. July 6 and 13.

The Centre Stage season concludes with "The Baby Blues," a comedy by North American Indian playwright **Drew Hayden Taylor**.

"The Baby Blues" takes place at a modern pow-wow, where a fancy dancer intent on finding someone to spend the weekend with finds his past catching up with him instead. **Betsy Theobald**, who has directed other Taylor works, will direct the premiere production.

"The Baby Blues" runs 8 p.m. July 12, 13, 16-20 and 23-27 in the Pavilion Theatre. Previews are 8 p.m. July 10 and 11; matinees are 2 p.m. July 20 and 27.

Subscriptions are on sale now. For a free season brochure, phone the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800)ARTS-TIX.

Theatre Workshop spring production

The Theatre Workshop in Diverse Cultures (TWDC) will present a production of "For Colored Girls Who Have Considered Suicide When The Rainbow Is Enuff," by **Ntozake Shange** and directed by theatre arts faculty member **Spence DeCastro**, at 3:30 and 5 p.m. today, and at 5 p.m. Friday, March 1, in room 119 of the College of Arts and Architecture Theatre Arts Building.

The TWDC is a performance-oriented class which explores the historic and contemporary theatrical works of various peoples in order to sensitize students to the broad cultural diversity that exists in artistic expression. The TWDC is part of the College of Arts and Architecture Department of Theatre Arts.

The performance is free to the public. Reservations are not required but can be made by calling (814) 863-9413.

Art Show and Auction

The ninth annual Art Show and Auction sponsored by The Hershey Medical Center Employee Fund-raising Committee to benefit the Children's Miracle Network will be held at 6 p.m. Friday, March 1, at the Hershey Country Club. Preview of the art will begin at 6 p.m. with the auction at 7 p.m.

This event allows attendees to acquire quality art at substantial savings while helping raise funds for children's services at Penn State University Children's Hospital. The show will feature original oils, watercolors, enamels, etchings, lithographs and other graphics from the Heisman Fine Arts Gallery of Ardmore. Most of the art will have opening bids ranging from \$60 to \$150. Last year's event raised nearly \$6,000 for the Children's Miracle Network.

Tickets will be available at the door for \$5 per person. For more information, please contact hospital administration at The Hershey Medical Center at (717) 531-7163.

Exhibitions to open

Several new exhibitions will be on display at University Park in March. They include:

■ HUB Formal Gallery

The HUB's Formal Gallery will feature the works of **David Van Dommelen** from March 2 to 30. Mr. Van Dommelen will also give an artist talk at 3 p.m. March 16, in the HUB Formal Gallery. Mr. Van Dommelen, a fiber artist



On display

Fiber artist **David Van Dommelen's** work will be featured in the Hetzel Union Building Formal Gallery on the University Park Campus from March 2 to 30.

using fabric, stitchery, applique, stenciling and weaving, incorporates moments in history in his work.

A former art professor at Penn State, he received his B.A. and his M.A. from Michigan State University, and holds a diploma from the Harrington Institute of Interior Design. He also held many other academic positions, including assistant professor of design, University of Maine, 1962-1964; associate professor of housing and interiors, Penn State, 1964-1973; professor of art education, Penn State, 1973-1987; professor emeritus of art education and fiber arts, Penn State, 1987-present.

■ HUB Art Alley panels

The HUB's Art Alley panels will feature the paintings of **Patrick Casher** from March 5 to April 7.

Mr. Casher, a native of Snow Shoe, received his formal art training at Penn State and the University of Delaware, where he received his B.A. in art and a B.A. in art history. He also was in the master's program for art history at the University of Delaware.

Mr. Casher's paintings have been exhibited in Newark, Del., and in Erie and Harrisburg. His most recent works have appeared at the Art Alliance in Lemont and at the offices of Edward Jones and Co.

The HUB's Art Alley panels are on the first floor of the HUB and may be seen during all HUB hours.

■ Kern Exhibition Area

The Kern Exhibition Area will feature the works of **Heidi Zimmler** and **Roberta M. Moore** from March 5 to April 7.

Ms. Zimmler graduated from the State University of New York, Oneonta, with a B.A. in the fine arts and has

been producing fine stoneware and porcelain pieces for more than 18 years.

She is a member of the Central Pennsylvania Art Alliance, Potters Guild and the Pennsylvania Guild of Craftsman. She has participated in a wide variety of juried shows and exhibitions for the past 12 years, including the Central Pennsylvania Festival of the Arts.

Ms. Moore is a 1988 graduate of Millersville University with a bachelor's degree in the fine arts. She is pursuing a master of fine arts degree in photography at Penn State.

Ms. Moore's work focuses on primarily black and white portraits of the human form.

The Kern Exhibition Area is on the first floor of the Kern Building. Exhibition hours are 8 a.m. to 11 p.m. Monday through Friday, 10 a.m. to 11 p.m. Saturday and noon to 11 p.m. Sunday.

Odyssey on WPSU

Ukrainian poet **Natalia Bilotskiverts** and her translator **Michael Naidan** of the Penn State Department of Slavic and East European Languages, are the next guests on *Odyssey Through Literature*.

Through the reading of Ms. Bilotskiverts' poems in both English and her native Ukrainian, the true meaning of the poetry is brought to the surface. Her poetry often references nature, particularly rain and snow, as an expression of sadness.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, February 29

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Trombone Choir.

■ Australia-New Zealand Studies Center, 1:30 p.m., 205 Shields Bldg. John Wells on "The Australian Educational Marketing Model and International Student Recruitment in the Pacific Rim."

Center for Academic Computing, 3 p.m., Studio C, Mitchell Bldg. PBS teleconference on "Coping with Changing Campus Culture."

Theatre Workshop in Diverse Cultures, 3:30 p.m., 119 Theatre Arts Bldg. Production of "For Colored Girls Who Have Considered Suicide When the Rainbow is Enuff." For more information, call (814) 863-9413. Also, March 1 at 6 p.m.

Reading, 7 p.m., Palmer Lipson Auditorium. Winners of the Medieval Art in America writing competition present their entries and receive their awards. Reception will follow.

College of Education, 7 p.m., Eisenhower Auditorium. Film: "Harlem Diary: Nine Voices of Resilience."

Saturday, March 2

Film, 2 p.m., Palmer Lipson Auditorium. "Castle."

Sunday, March 3

Palmer Museum, 3:30 p.m. Unveiling ceremony of newly purchased piece of medieval art for its permanent collection.

Monday, March 11

School of Music, 8 p.m., Recital Hall. John Couch, piano.

Tuesday, March 12

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "The Who's Tommy." For tickets, call (814) 863-0255. Also, March 13.

Wednesday, March 13

Center for Women Students, 7 p.m., 104 Classroom Bldg. Film/Discussion: "One Woman, One Vote."

Thursday, March 14

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Singing Lions. Hillel, 6:30 p.m., Palmer Lipson Auditorium. Film, "The Gardener."

Friday, March 15

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Kay Picart on "Asian Art at the Palmer Museum." Office for Minority Faculty Development Workshop, 2 p.m., 114 Kern Bldg. Hector Flores on "Publishing." For reservations, call (814) 863-1663 by March 12.

Rainbow Forum, 3:30 p.m., Wilkinson Lounge, Eisenhower Chapel. Forum will focus on integrating gay, lesbian and bisexual issues into curricula.

School of Music, 8 p.m., Recital Hall. James Lyon, violin.

Saturday, March 16

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Marilyn Horne, mezzo-soprano and Benita Valente, soprano. For tickets, call (814) 863-0255.

Sunday, March 17

Exercise and Sport Science, 2:30 p.m., 132 White Bldg. Performance of "Through the Shadows," a blend of original works created for music and dance.

Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. Dynamo Theatre "The Challenge." For tickets, call (814) 863-0255.



Make your own art

Penn State student Joe Van Zant teaches other students how to throw pottery at the Hetzel Union Center for Arts and Crafts on the University Park Campus. The center will hold art classes open to anyone in Centre County beginning March 11. Classes include darkroom photography, pottery, painting, stained glass, drawing, watercolor and more. For information, call (814) 863-0611 or stop by 312 HUB to register.

SEMINARS

Thursday, February 29

Ecology, 3:45 p.m., 108 Warkit. Brenda Casper on "Plant Population Dynamics: Notes from Underground."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Jim Salehi on "Scheduling Network Processing on Multimedia and Multiprocessor Servers."

Institute for the Arts and Humanistic Studies, 4 p.m., Firebird Room, Nittany Lion Inn. George Bornstein on "Under the Moon: Finding New Poems by W. B. Yeats."

Friday, March 1

Computer Science and Engineering, 10:30 a.m., 301 Pond Lab. B. Shirazi on "PARSA: A Parallel Program Scheduling and Assessment Environment."

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Gilbert J. Gailing on "Geodemographic Political Targeting in Right-to-Work Elections."

Saturday, March 9

Entomology "Catch the Bug," 10 a.m., 101 ASI. Learn what to hold and what not to in "Hands on Bugs."

Monday, March 11

Continuing and Distance Education, noon, 106 Mitchell Bldg. Frank Wilson on "Designing and Developing Effective Videotaped Instruction."

Comparative Literature Luncheon, 12:15 p.m., 101 Kern. Ralph Cohen on "Genres As Social Formations."

Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Bldg. Hongyuan Zha on "Graph Partitioning and Parallel Computation."

Biochemistry, 4 p.m., 117 Osmond Lab. M. Thomas Record on "Site-Specific Protein-DNA Interactions Involved in Control of Transcription Initiation: Equilibrium and Kinetic Studies of La Repressor-Operator and RNA Polymerase-Promoter Interactions."

Tuesday, March 12

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Howard H. Brenner on "On Convection Induced by Molecular Diffusion."

Graduate School of Public Policy and Administration, 3 p.m., 12 Sparks Bldg. Irwin Feller on "The Changing Economics of Academic Research."

Geosciences, 3:30 p.m., 112 Walker Bldg. Hiroshi Ohmoto on "The Rise of Oxygen." Biology, 4 p.m., 8 Mueller Lab. Michael Dickinson on "The Mechanics and Physiology of Flight Control in Flies."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Leonidas Kirothianassia on "Architectural and Operating System Support for Inexpensive, Efficient Shared Memory."

Food Science, 4 p.m., 117 Borland Lab. Tawfik Shatkat on "Perspectives on R&D from the Industry Standpoint."

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. James Cook on "Assessment of Iron Status."

Wednesday, March 19

Adult, Continuing & Distance Education, 11:45 a.m., 502 Keller. David F. Mercer on "A 60 Year Odyssey with Adult and Continuing Education."

Science, Technology and Society (STS) Program, noon, 118 Willard Bldg. Richard Doyle on "Long Live the New Flesh: Prolonging Confession and the Silicon Moment."

Gerontology, 12:15 p.m., 101 H&H East. Pat Parmelee on "Depression Among Frail Older People."

Thursday, March 14

Economics, 1 p.m., HUB Gallery. Charles T. Cottle on "Picking Winners: Recognition and Reward Programs for Public Schools."

Ecology, 3:45 p.m., 108 Warkit. Tom Hinkley on "Poplar Productivity: Information from Linkage Maps to U-2 Aircraft." Computer Science and Engineering, 4 p.m., 302 Pond Lab. Balaji Raghavachari, speaker.

Health and Human Development, 4:15 p.m., 209 Henderson Bldg. Pattishall Lecture by Steven Zarit on "Families at the Crossroads: Caring for Disabled Older People."

Friday, March 15

Accounting Research, 3:30 p.m., 333 Beam

BAB. Parvin Shofit on "The Relation Between Aggregate Earnings and Security Returns over Long Windows."

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Barbara L. Gray on "Collaborative Planning Processes to Resolve Environmental Disputes."

CONFERENCES

Tuesday, March 5

Biochemistry and Bioprocessing Short Course on Polymerase Chain Reaction Technology (PCR). Through March 8. For more information, call (814) 863-1918.

Thursday, March 7

Satellite Teleconference, 1 p.m., 129 Mitchell Bldg. "Distance Learning Today: An Introduction," explores the changes taking place in the global community that are affecting today's education system. No pre-registration necessary.

Thursday, March 14

Satellite Teleconference, 1 p.m., 129 Mitchell Bldg. "Distance Learning Today: Methods and Mediums," introduces a variety of delivery methods and mediums associated with learning at a distance. No pre-registration necessary.

EXHIBITS

HUB

Browsing Gallery:

Evelina Francis' fiber sculptures, through March 17.

Art Alley Cases:

International media, diverse art, cultural exhibits and crafts. Through April 7.

Art Alley Panels:

Work by Patrick Casper, landscapes painted in plain air in the woods surrounding his hometown. March 5 through April 7.

Formal Gallery:

Work by David Van Dommelen, fiber artist. March 2 through March 31.

Kern

Kern Cases:

Held Zimbar, porcelain clay and stoneware with hand painted decorations. March 5 through April 7.

Kern Panels:

Roberta Moore, photography, black and white portraits of the human form. March 5 through April 7.

Palmer Museum

"Medieval Art in America: Patterns of Collecting 1850-1940," through March 3.

"Rapture at the Interface Between Love and Disease," contemporary photography and sound by David Teplica and Bryan Shuler. Through March 10.

■ "Wayne Miller: Photographs of Tokyo, Yokohama, and Hiroshima-September 1945," through March 10.

"Recent Gifts: The Jack Berishad Poster Collection," through June 2.

Zoller Gallery:

Undergraduate Juried Exhibition, through March 24.

■ Reflects an international perspective

TIPS

Information Penn State

Call (814) 863-1234 and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather — 234; Arts Line — 345; University Calendar — 456.

Arts

continued from page 8

Medieval sculpture to be unveiled

The Palmer Museum of Art will unveil a new acquisition at 3:30 p.m. Sunday, March 3. To honor the current exhibition of medieval art, the museum has purchased a significant piece of medieval sculpture for its permanent collection. The French stone figure of a kneeling lady is thought to be Burgundian and date to the second half of the 15th century. Kneeling with hands clasped in prayer, this figure takes what is known as the "donor pose."

"When a figure in a religious work of art is in this position, it means that he or she is the patron for the piece," **Kahren Arbitman**, museum director, said. "A Madonna and Christ child, for example, might be in the center, and portraits of the people who paid for the altarpieces would be at the sides. Their prayerful pose signifies they are praying to the holy personages and not actually inhabiting the same space."

The purchase price was \$85,000, which includes the buyer's premium for the auction house. The sculpture was purchased with donations from the Friends of the Palmer Museum of Art, James R. and Barbara R. Palmer and The Altherton Hotel.

For more information, contact the Palmer Museum of Art at (814) 865-7672.

The unveiling ceremony is free to the public.

Theatre and music at Williamsport

The acclaimed Broadway stage version of the famous MGM movie "Seven Brides for Seven Brothers" will be performed March 8 at 8 p.m. at the Community Arts Center in Williamsport, part of the Pennsylvania College of Technology.

The story is an exuberant tale of the seven Pontipice brothers hankering for fun, fighting and female companionship in the Oregon wilderness of the 1850s. Tickets for this musical comedy are \$27.50, \$22.50 and \$18.50. For more information, contact the center's ticket office at (717) 326-2424.

Now in its third season of entertainment, the Community Arts Center is also offering a March 11 and April 22 performance by the Musicians from Marlboro, a group of musicians that are part of Vermont's Marlboro Music Festival—a summer mecca for the world's finest chamber ensembles. The March 11 performance will feature the Muir String Quartet in an evening of Beethoven and Mozart. Tickets for these performances are \$17.50, \$14.50 and \$10, with a special price for children 16 and under.

Female ensemble

Cecilia's Circle, an ensemble of four young women skilled in the traditions of the Baroque, will perform



New acquisition

The Palmer Museum of Art will unveil this medieval French stone figure at 3:30 p.m. Sunday, March 3.

at 7:30 p.m. Wednesday, March 13 at the Penn State Berks Campus in the Perkins Student Center Theatre. Tickets for the show are \$3 for general admission and \$2 for students and seniors. Admission for Penn State faculty, staff and students is free.

The ensemble's programs reveal the rare beauty of masterworks by women composers, alongside more familiar works of the Baroque. For ticket information, call (610) 320-4870.

Sculpture exhibit at Berks Campus

A free exhibit of sculpture fashioned from glass is on display from Wednesday, March 13 through Wednesday, April 17 on the Penn State Berks Campus in the Freyberger Gallery in Perkins Student Center. The exhibit features a wide variety of approaches to artwork made with blown or cast

their actions were independent, the groups became known collectively as the "Caribbean Legion."

In his book, he analyzes the myth and reality of the Caribbean Legion, as well as the policy of the United States in reaction to the unrest in the postwar Caribbean. He makes use of never-before-consulted documents from 1949 and 1950 on "the situation in the Caribbean" from the Inter-American Peace Committee of the Organization of American States.

In their new book, *Other Ways to Win*, authors **Kenneth C. Gray**, professor of vocational education, and **Edwin L. Herr**, Distinguished Professor of education and associate dean for graduate programs, research and technology, examine how students are pressured to go to college.

Each year, large numbers of high school graduates with lackluster academic talents enter college because they or their parents consider earning a

glass by artists working in Pennsylvania. For information on gallery hours, contact **Beverly Levine** at (610) 320-4870.

Bach's Lunch concert

The Singing Lions, a show choir directed by **Peter Kiefer**, will perform at the Bach's Lunch concert on Thursday, March 14, at 12:10 p.m. in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and University Lutheran Parish.

The Singing Lions consists of 16 singers, a three-person accompaniment combo and a technical support group. The Bach's Lunch concert will feature selections from Broadway, jazz and disco repertoire.

This spring the Singing Lions will perform on the University Park Campus for Cabaret Night on Saturday, March 16, in Kern Graduate Commons and for the annual spring show on Sunday, April 14, in the Recital Hall of the School of Music.

The audience may take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided.

The Bach's Lunch concert is free to the public.

Gordon Lightfoot to perform in Williamsport

Musician **Gordon Lightfoot**, whose hits include "If You Could Read My Mind," "The Wreck of the Edmund Fitzgerald" and "Carefree Highway," will perform at 8 p.m. March 28 at the Community Arts Center in Williamsport, part of the Pennsylvania College of Technology.

Lightfoot, known for his mellow acoustical stylings, has been nominated for a Grammy Award four times and is the winner of 16 Juno Awards, including the Juno Hall of Fame Award. Tickets for his performance are \$30, \$23.50, \$18.50 and \$16. For more information on the concert and seating, call the center at (717) 326-2424.

Annual gala planned

The Friends of the Palmer Museum of Art will hold their annual gala fund-raiser, a "Roaring Twenties" evening, at 6:30 p.m. Saturday, April 20, at the Penn State Scanticon.

The event includes dinner, a silent auction and dancing to music of the Mick Dennis Orchestra. Proceeds from the gala benefit the Palmer Museum.

For more information or to make reservations, contact the Palmer Museum of Art weekdays between 8 a.m. and 5 p.m. at (814) 865-7672. Reservations should be made no later than April 12.

bachelor's degree the "one way to win" a good career. But, according to *Other Ways to Win*, so many of these students end up dropping out and in debt that encouraging them to consider options other than four-year colleges should be a social priority.

Subtitled *Creating Alternatives for High School Graduates*, the book is published by Corwin Press in Thousand Oaks, Calif. It expands on findings from Dr. Gray's studies of youths in the "academic middle," many of whom take college prep courses in high school despite having grades that almost certainly doom them to failure in college.

Drs. Gray and Herr say the first step in creating other ways to win is to provide systematic career guidance for all high school students and objective feedback to all parents about their child's readiness to pursue a four-year college degree. One goal would be to create individual career plans that relate each student's career interests and post secondary higher education aspirations to individual aptitudes and achievements.

BOOK SHELF

Charles D. Ameringer, professor emeritus of history, is the author of *The Caribbean Legion: Patriots, Politicians, Soldiers of Fortune, 1946-1950*, published by Penn State Press.

Professor Ameringer's book examines the political struggles of the peoples of Costa Rica, Cuba, the Dominican Republic, Guatemala, Honduras and Nicaragua in the years following World War II. Taking their inspiration from the D-Day-style invasions of occupied Europe, groups of political exiles organized a series of armed expeditions that kept the Caribbean in turmoil for five years. Although



Not your typical classroom

This display case of pottery from the American Southwest can be seen in room 107 Carpenter Building on the University Park Campus. All the pottery in this room is from the Emily Johnston DeForest Folk Pottery Collection, formerly in the collection of the American Museum of Natural History in New York, N.Y. The museum donated the collection of artifacts to Penn State.

Photo: Kristie Guldner

Three projects earn seed grant funding

The colleges of Agricultural Sciences and Health and Human Development have awarded \$15,000 in seed grant money to three faculty projects that address issues related to youth development.

The funds are part of the Collaboration for Youth Initiative, a joint project of the two colleges.

Now in its third year, the seed grant fund is intended to increase collaboration across the two colleges and to encourage pilot projects that will lead to external grant applications. The projects funded typically involve either research or program

development (with projects of the latter type also including an evaluation component).

The three projects funded this year are:

- "Implementing Youth Drug Prevention Programs Through 4-H." Nancy Darling (Human Development and Family Studies), Tim Rollins (Agricultural and Extension Education), Tena St. Pierre (Agricultural and Extension Education), and Ed Yoder (Agricultural and Extension Education).

- "Evaluation of School-Based

Programs for Students Making the Transition to Senior High School." Susan McHale (Human Development and Family Studies), Christine Tomascik (Cooperative Extension Service), John Graham (Human Development and Family Studies), and Joseph Martino (Cooperative Extension Service).

- "Teaching Forest Stewardship to Urban Youth." Stephen Jones (School of Forest Resources) and Alan Graefe (School of Hotel, Restaurant and Recreation Management).

Smeal College ranked fourth most productive

The Smeal College of Business Administration doctoral accounting students were ranked the fourth most productive in the country in a study recently published in the journal *Advances in Accounting*.

The study's authors, James R. Hasselback and Alan Reinstein, found that The Smeal College Ph.D. students trailed only the University of Texas at Austin, the University of Florida and top-rated University of Illinois in the number of articles published, weighted by coauthor-

ship. In the research productivity ranking of 73 of the nation's major doctoral accounting programs, The Smeal College was immediately ahead of Indiana University, Stanford, the University of Washington, the University of Tennessee and The Ohio State University.

Dr. Hasselback's and Dr. Reinstein's study examined publication records in leading publications in the field, a commonly used measure of research productivity.

They reviewed the work of 2,708

graduate students as published in 41 journals in accounting over the period 1978 to 1992.

During this time period, 62 students from The Smeal College either authored or co-authored research papers. In a separate ranking based on the quality rating of the journal and weighted by coauthor, Smeal College students came in seventh nationally.

The Smeal College Department of Accounting is headed by Charles H. Smith.

WEB BROWSER

By DOUG STANFIELD
technology editor

The beauty of the World Wide Web is that there are *always* new places to visit. In no particular order, the following are offered to introduce some new and useful web sites at Penn State. If you have comments or suggestions, creators of these pages would love to hear from you.

Bursar's Office:

<http://www.bar.psu.edu>

General information including: tuition rates, room & board rates, due dates and payment plans, tuition adjustments, refund policy, and a FAQ (Frequently Asked Questions) file.

OASIS (Open Access to Student Information System)

<http://www.oas.psu.edu/oas-news/oasis3.htm>

This site tells readers about Penn State's student information system, how it works, what its capabilities are, how to access it and establish an account, location of computers for use to get to OASIS and much more.

OASIS was developed as a cooperative effort between Cornell University, Penn State and MIT with support from Apple Computer Inc. The project's purpose is "to create tools to build distributed computing applications for use by university personnel not necessarily comfortable with computers."

OASIS at Penn State is currently available on more than 450 Macintosh microcomputers at University Park and other Penn State locations.

Penn State phone directory:

<http://www.psu.edu/ph/directory>
The Penn State phone directory, which many users access via "Ph" in Eudora, is now available for users of Netscape, and other popular WWW "browsers." The principal benefit of this new directory is the ability to simultaneously search on multiple Ph fields. For example, a person can look for everyone named "John" working for the Alumni Association by typing "john" in the name field and "alumni" in the department field. You can run, but you can't hide.

The Jordan Center:

<http://www.pubinfo.oud.psu.edu/INTERCOM/feb8/jordan.html>
Turn here for information about upcoming events, schedules and ticket information. The center is planning to launch its own Web site soon.

Partings

Several ARL employees announce retirements

Andrew G. Halsnik is retiring as a senior designer, electromechanical, after 36 years of service at the Applied Research Laboratory.

In 1960, he joined ARL's Drafting and Design Office as a junior draftsman. For the last eight years he has worked off campus at ARL's remote testing facility and performed design work for the Power and Mechanical Systems Department. Mr. Halsnik served as ARL's representative for its Employees Benefits Association.

A native of Clarence, Pa., Mr. Halsnik studied drafting at the Williamsport Technical Institute. Before working for the laboratory, he was employed as a mechanical draftsman for Curtis Wright. During his tour of duty with the U.S. Army, he was a launching control operator for Nike missiles.

Mr. Halsnik and his wife, Dorothy, a bookkeeper, reside in Philipsburg. They have two sons: Robert, a graduate of Penn State, and Keith, a graduate of Williamsport Community College. During his retirement, Mr. Halsnik wants to travel and volunteer for community work. He is also an avid sports fan and enjoys fly-fishing.



Andrew G. Halsnik



Richard D. Ingram



Roger L. Kerlin



Richard A. King



Donald R. Peterson



Donald E. Upshaw



Gary A. Young

Richard D. Ingram, assistant director of program management at the Applied Research Laboratory and associate professor of engineering, is retiring after 37 years of service.

His career at ARL began in 1957, when he was hired as a graduate assistant. A year later he became a full-time employee and worked on the 20-C guidance and control system. During the 1960s, Mr. Ingram was designated as the section leader. He was appointed the program manager in 1963 for the Office of Naval Technology Total Arctic Research Program. By the 1990s, he was named the assistant director for engineering systems and in 1993, accepted a position as a science and technology adviser for the Program Executive Office in Washington, D.C.

At Penn State, Mr. Ingram received his bachelor's degree in 1957 and his master's degree in 1960, both in electrical engineering. Honors he received throughout his career include the ARL Technical Contribution Award (1975 and 1985), American Defense Preparedness Association Bronze Medal (1988), Chief of Naval Research Certificate of Commendation (1988), ARL Distinguished Performance Award (1992) and a Letter of Commendation (1995). While researching guidance and control in the 1960s, Mr. Ingram published two papers in the *Journal of Underwater Acoustics* and was awarded three patents.

Mr. Ingram and his wife, Donna, have one son and three grandchildren. His retirement plans include country living, staying at his cottage in Canada and painting.

After 33 years of service, **Roger L. Kerlin** is retiring as a senior research associate with the Systems Engineering Department in the Applied Research Laboratory. During his tenure, Dr. Kerlin primarily researched the dynamic properties of materials; vibration and noise; underwater transmissions, testing and calibration; and beam cantilever vibration.

While attending Penn State, Dr. Kerlin received his bachelor's and master's degree in physics and his doctorate in engineering acoustics. He was also one of the first enrollees in the Graduate Acoustics Program. Between 1958 and 1960, he worked as a student employee for the laboratory. After graduating with his bachelor's degree, he spent three years as a commissioned naval officer. When he completed his last tour of duty in 1963, Dr. Kerlin returned to ARL.

Dr. Kerlin has published his research in the *Journal of the Acoustical Society* and the *Journal of Sound and Vibration*. He has been a long-standing member of ARL's Diversity Committee and a faculty member of the acoustics program. He is a member of the Lions Club and the Navy League.

Dr. Kerlin has three stepchildren and four grandchildren. In his retirement he plans to read more, surf the 'Net, and help his wife, Betty, raise peacocks at their bed-and-breakfast.

Richard A. King, a senior designer, electromechanical, is retiring from the Drafting and Design Office at the Applied Research Laboratory after 37 years of service.

Mr. King began at ARL in 1958 as a junior draftsman, after spending time in Penn State's Accounting Office.

A native of Bellefonte, he studied drafting at the Williamsport Technical Institute and is a national certified senior engineering technician. He served two years in Germany as an Army helicopter mechanic. He then worked at Veederoot Corp. in Altoona before joining Penn State.

During his tenure with ARL, Mr. King was honored with the 1993 Technical Contribution Award as a member of the Submarine Torpedo Defense Guidance System Team.

Mr. King is a member of ARL's Community Service Board and Penn College's Drafting Advisory Board. Previously he served as president and vice president of the Bellefonte Area School District's Board of Education.

After he and his wife, Joanne, retire, they plan to travel and visit their three children and two grandchildren.

After serving 16 years as the security guard at the Applied Research Laboratory, **Donald R. Peterson** will retire.

Mr. Peterson began working at Penn State as a wage payroll employee for Food Services in 1976. Before that, he had been employed at several area businesses.

Mr. Peterson, a native of Hollidaysburg, spent nine years in the National Guard.

His retirement plans include getting a part-time job and spending more time with his four sons and six grandchildren.

Donald E. Upshaw, head of the Applied Research Laboratory's operations in Keyport, Wash., has retired after 20 years of service. His responsibilities at Keyport included assisting the director with ARL's work on systems and programs requiring testing and evaluation.

He also developed and directed ARL resources at the Naval Undersea Warfare Center, Keyport Division to support the testing and evaluation of new technologies, as well as for coordinating ongoing programs and developing new programs.

Mr. Upshaw joined ARL in 1974 after retiring as a commander in the Navy, in which he had a 22-year career. During his first 10 years, he supported the MK 48 torpedo advanced capability program and assumed leadership responsibility in the testing programs conducted under ice in the Arctic. He subsequently managed several of ARL's major Navy and DARPA programs.

Mr. Upshaw graduated from the Naval Academy and the Navy's Submarine School.

During his employment with ARL, he was presented with letters and citations for meritorious public service, including the Navy's Meritorious Public Service Citation from the Chief of Naval Material for successful systems testing under the Arctic ice in 1979, conducted under adverse testing conditions.

Gary A. Young, supervisor of ARL's main lab shops, is retiring after 28 years of service.

Mr. Young began his career at ARL in 1967 as a machinist apprentice. At the time, the laboratory was not approved to award journeyman's papers. After he and another employee took additional courses, the Commonwealth's Department of Labor and Industry accredited ARL's apprenticeship program. After four years, Mr. Young became a full-fledged journeyman machinist. He stayed in this position for 18 years until he was promoted to the supervisor of the Model Shop in the Water Tunnel Building. He later became a supervisor at the main lab.

Mr. Young is a former president of ARL's Employees Benefits Association. Before joining the laboratory, he spent two years as a machinist mate in the Navy.

In his retirement, Mr. Young will join his wife, Linda, in Virginia, where their sons reside.

Partings

Professor of civil engineering retires after 27 years of service

Jack H. Willenbrock, professor of civil engineering, Bernard and Henrietta Hankin Chair of residential building construction, has retired after 27 years of service to the University.

Dr. Willenbrock received his B.S. degree from The Cooper Union in 1960, his M.S. degree from Lehigh University in 1962, and his Ph.D. in 1972 from Penn State.

He began in 1968 at Penn State as an instructor, while working on his Ph.D., and advanced to the rank of professor in July 1981. In 1984, he was named the Bernard Hankin Professor of residential building construction and accepted the Bernard and Henrietta Hankin Chair position in 1990. During his tenure at Penn State, he has taught both undergraduate and graduate students. He has an extensive record in research, professional publications and consulting.

Dr. Willenbrock was responsible for developing a



Jack H. Willenbrock

unique program at Penn State where students from both the departments of civil and environmental engineering and architectural engineering can specialize in residential construction. He also was a leading force in the establishment of the Housing Research Center at Penn State.

In addition, Dr. Willenbrock has won numerous awards. He received the 1975 National University Extension Association "Creativity Award" for PennDOT Continuing Education courses, the K.B. Woods Award for transportation research in 1984, the Penn State Engineering Society 1984 Outstanding Teaching Award, the 1987 Outstanding University Associate Award presented by the National Association of Home Builders, the 1992 Home Builders Outstanding Educator Award and most recently the 1995 ASCE "Purfoy Construction Research Award."

OHR specialist to depart after 28 years of service

Richard H. Brown, human resources development specialist with the Office of Human Resources, retired Jan. 1 after more than 28 years of service at the University.

Mr. Brown started with the University in 1967 as a personnel assistant in the Office of Physical Plant. In 1974, he transferred to the Office of Business Services to work as an aide to the assistant vice president and serve as the office's personnel representative. At the time, he also was a member of the University Committee for Training and Development and the University Safety Council.

From 1979 through 1986, he served as the director of Fleet and Airport Services and, from 1980 through 1986, as manager of the University Park Airport. During this period, he was a member of the National Association of Fleet Administrators Inc. and the American Association of Airport Executives, for



Richard H. Brown

which he served on the program committee of the International Aviation Show Symposium for six years.

Mr. Brown also has served as a member of the Aviation Council of Pennsylvania and on the State College Area Chamber of Commerce's transportation committee, which he chaired in 1986.

In 1987, he transferred to the Office of Human Resources to provide special instruction in the areas of supervisory management and customer service.

He is current president of the State College Kiwanis Club, of which he has been a member since 1981. He holds an A.B. degree in economics from Temple University and a master's in vocational industrial education from Penn State.

Mr. Brown and his wife, Katherine, who is also a University retiree, live in State College. They have three daughters and are awaiting their third grandchild.

Assistant professor at Mont Alto Campus retires

Edward Stahl Jr., assistant professor of physics and dean's representative of the college of science at the Penn State Mont Alto Campus, has retired after more than 26 years of service at the University.

Professor Stahl, who taught calculus, math, physics and engineering at the campus, also served in the military for 12 years as a nuclear biological chemical instructor.

Before joining Penn State, he taught for two years at Bucknell University and for three years at East Pennsbury Joint Schools.

His plans for retirement include obtaining another job, such as teaching in a school district, and continuing to teach CPR and first aid for the American Red Cross.



Edward Stahl Jr.

"Temporary job" turns into career lasting 25 years

Alice Haines has retired from the cataloging department at the University Libraries after 25 years of service.

When she began at Housing and Food Services in 1970, she only expected to work a few months, until her husband was reinstated to his job after a strike. But that few months turned into 25 years at Penn State.

Over the years she has worked in Lending Services, helping with the barcoding project, and later did copy cataloging of Spanish materials and music.

Later she worked with monographs and serials, and was involved with a number of special projects including the Historical Collections/Labor Archives uncataloged titles, and the Foreign Broadcast Information Service reports.

Twenty-one leave University service

Anna O. Cramer, staff assistant VI, The Hershey Medical Center, from June 6, 1983, to Jan. 20.

Loretta J. Lee, maintenance worker, Utility, Penn State Abington-Ogontz Campus, from June 27, 1983, to Dec. 23, 1995.

Shirley C. Rader, staff assistant VI, Research and Graduate School, from Nov. 3, 1975, to Jan. 1.

Joan D. Updegrave, staff assistant IV, Penn State Allentown Campus, from Aug. 10, 1981, to Jan. 1.

Marcella R. Weierbach, staff assistant IV, The Hershey Medical Center, from May 16, 1977, to Jan. 20.

Franklin J. Young, maintenance worker, Utility, Office of Physical Plant, from Jan. 20, 1981, to Jan. 27.

Daniel L. Boone, research support technologist III in the College of Engineering, from May 11, 1981, to Jan. 1.

Phyllis J. Boone, staff assistant VI in the College of the Liberal Arts, from April 7, 1980, to Jan. 1.

Ronald C. Butterworth, automotive technician in the Office of Physical Plant, retired Jan. 4 after 18 years of service at the University. He began at Penn State on May 23, 1977.

Marian J. Cairns, staff nurse, The Hershey Medical Center, from Aug. 8, 1983, to Nov. 11, 1995.

Stanley A. Fargione, group leader, maintenance worker, Utility, Office of Physical Plant at the Penn State Abington-Ogontz Campus, from July 12, 1982, to Jan. 1.

Janet L. Gordon, staff assistant VI in the Office of the President, from April 14, 1980, to Jan. 16.

Joan B. Hoy, staff assistant V in the College of Agricultural Sciences, Oct. 1, 1977, to Jan. 1.

Kenneth Knott, professor of industrial/manufacturing systems, College of Engineering, from Dec. 1, 1977, to Jan. 1.

William H. Luse, maintenance mechanic in the College of Agricultural Sciences, from March 12, 1979, to Jan. 1.

John T. McNulty, maintenance foreman, Penn State Abington-Ogontz campus, from Oct. 11, 1975, to Jan. 1.

Eugenia J. Okoniewski, janitorial worker, Office of Physical Plant, from Feb. 21, 1982, retired Jan. 3 after 13 years of service.

Joan M. Pucillo, coordinator, Collections at The Hershey Medical Center, from May 26, 1981, to Dec. 30, 1995.

Ann R. Rosenstock, staff assistant IV, Office of the President, retired Jan. 1 after 26 years of service at the University. She began at Penn State Jan. 6, 1969.

Ruby A. Shepherd, staff assistant V, The Smeal College of Business Administration, from Dec. 1, 1980, to Jan. 1.

Marijane Watson, staff assistant VI with the Population Research Institute in the Research and Graduate School, retired Jan. 1 after 23 years of service at the University.

Penn Staters

Abhay Ashtekar, holder of the Eberly Family Chair in physics and director of the Center for Gravitational Physics and Geometry, has been elected to an honorary fellowship in the Indian Academy of Sciences in recognition of his "distinguished contributions to science." He also has been elected vice-chair of the Gravitational Topical Group of the American Physical Society.

Dr. Ashtekar recently presented a series of four invited talks, titled "Non Perturbative Quantum Gravity," at the first Mexican Workshop on Gravitational and Mathematical Physics, organized by the Mexican Physical Society in Oaxtepec, Mexico.

Daniel W. Conway, associate professor of philosophy, has been appointed visiting Fellow at the Centre for Research in Philosophy and Literature for the winter term at the University of Warwick in Great Britain. He will present a series of lectures and participate in several workshops and conferences sponsored by the center.

T. DebRoy, professor of materials science and engineering, delivered a keynote address on "Nitrogen Dissolution in the Weld Metal-Current Status and Research Opportunities" at the Third International Seminar on Numerical Analysis of Weldability in Graz, Austria. He also presented an invited lecture on "Mass Transfer in Fusion Welding: Practical Implications and Case Studies" at the International Workshop on Recent Trends in Welding in Bangalore, India.

Charles Elliot, undergraduate student adviser at the Penn State Altoona campus, has been named the managing editor of the *Electronic Journal for the Academic Advising Discussion Network*. The network is composed of professional and faculty advisers worldwide and is an extension of the National Academic Advising Association—the international academic advising professional organization.

Ralph Ford, assistant professor of electrical engineering at Penn State Erie, The Behrend College, presented "The Compression of Velocity Vector Field Data Using a Taylor Series Model" at the International Association of Science and Technology Development Conference on Signal and Image Processing.

Michael Foster, co-director of the Center for AI Applications in Water Quality, ERRI, and research associate in entomology, has been named co-editor of the Elsevier scientific journal, *Computers and Electronics in Agriculture*, for 1996-1998. His

responsibilities will cover all North American submissions to the journal, which covers international advances in the application of computers and electronic instrumentation and control systems to agriculture and related industries.

Roger Knacke, head of the Division of Science at Penn State Erie, The Behrend College, has been named chair of NASA's Telescope Allocation Committee for the world's largest telescope—the Keck Telescope in Mauna Kea, Hawaii. He and his committee will determine use of the telescope for approximately 90 nights this year.

Akhlesh Lakhtakia, associate professor of engineering science and mechanics, was one of four keynote speakers at the First International Conference on Computer Simulation at the American University of Beirut, Lebanon. His lecture was titled "Optics of Chiral Media, and Simulation of Linear and Nonlinear Properties." He also delivered a seminar, "Thirtyfive is Enough for Linear Electromagnetic Materials," at the Institut für Hochfrequenztechnik, Technische Universität Braunschweig, Germany; and delivered a seminar at the Max-Planck-Group on Dust in Star-Forming Regions, Friedrich-Schiller-Universität, Jena, Germany.

In addition, he presented "Maxwell Garnett Model for Nonlinear Particulate Composites with Bi-isotropic Host Materials" at the Kleinhaubacher Tagung, the German National Radio Science Meeting; presented "Electromagnetics of Linear and Nonlinear Chiral media" at the Department of Mathematics, University of Strathclyde, Glasgow, UK; and spoke on "Thirtyfive and Twenty are Well-Matched in Linear Electromagnetics" at the University of Manchester Institute of Science and Technology, Manchester, UK.

Joan B. Landes, professor of women's studies and history, has been granted a fellowship at The Swedish Collegium for Advanced Study in the Social Sciences in Uppsala, Sweden. During her tenure at SCASS, Dr. Landes will pursue her research on two book projects: *Visualizing Freedom: Gender, Politics and Culture in Eighteenth-Century France and Feminism and the Public Sphere*. She has accepted invitations to lecture at the International Workshop on Gender in Comparative Perspective, and the Women's History group, both at the University of Stockholm.

Bruce McPherson, associate professor of entomology, lectured on the global population genetics of the Mediterranean fruit fly at the International

Centre for Insect Physiology and Ecology in Nairobi, Kenya.

Karl Mierzejewski, research associate in entomology, received the Outstanding Service Award from the Gypsy Moth Management Board for "his many research contributions to improve and better understand aerial spray technology." The Gypsy Moth Management Board is part of the USDA Forest Service.

E. Willard Miller, professor emeritus of geography, has received the Distinguished Mentor Award from the National Council for Geographic Education for his contributions to geographic education at the graduate level.

Raja V. Ramani, professor and head of the Department of Mineral Engineering, has been appointed to the Department of Labor's National Advisory Committee on the Elimination of Pneumoconiosis among Coal Miners. The committee has been created to advise on improved methods for eliminating black lung and silicosis among underground and surface miners.

Suzanne St. Pierre, conference planner at The Penn State Scanton, has received a Creative Programming Award for "Playground Safety—An International Conference" from the Conferences and Institutes Division of the National University Continuing Education Association. The award recognizes creativity and originality in short-term continuing education programming.

Spiro Stefanou, professor of rural sociology, was named a visiting professor of economics at the Institute for Advanced Studies in Vienna, Austria.

Frank Swetz, professor of mathematics and education at Penn State Harrisburg, served as a plenary speaker at the first mathematics education conference, "MATHED 95," in Manila, Philippines, during his year as a visiting Fulbright Scholar and United States Information Service lecturer in Malaysia and Southeast Asia. Also during that year, he held training workshops for mathematics educators for the National Curriculum Development Centre, Malaysia, and at the Regional Center for Science and Mathematics Education, Southeast Asia; lectured at the Institute of Technology and the Institute of Teaching and Pedagogy, both in Bandung, Indonesia; the Sultan Hassanalk Bolkiah Institute of Pedagogy, University of Brunei, the University of Science, the National University, the University of Technology and the University of Sabah, all in Malaysia.

25-year Awards



Wayne A. Shirk



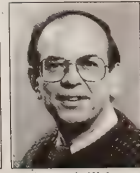
Leroy M. Siebenrock



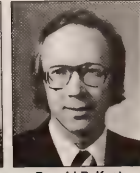
Larry J. Watson



Stephen Grecco



James A. Weiss



Donald B. Keat

Observing 25 years of service are, from left, Wayne A. Shirk, electrician with the Facilities Office; Leroy M. Siebenrock, manager of physical facilities; and Larry J. Watson, supervisor of facilities, all at the Applied Research Laboratory; Stephen Grecco, associate professor of English, College of the Liberal Arts; James A. Weiss, assistant professor of chemistry at the Penn State Worthington Scranton Campus; and Donald B. Keat, professor of education and counseling psychology in the College of Education. Not shown, but celebrating 25 years, are Betty Frazee, staff assistant for the Systems Engineering Department, and Phil Meyer, electrician in the Laboratory Facilities Office, both with the Applied Research Laboratory.

The volcano that roared, sputtered and spewed

By ANDREA ELYSE MESSER
science writer

Living in the shadow of an active volcano has posed hazards for populations throughout the ages, but archaeologists and geologists are now using survey and excavations of prehistoric sites to evaluate the potential hazard to current residents.

Popocatepetl in the Valley of Puebla, Mexico, is an active volcano that last erupted in December 1994, sending a dusting of ash and pumice over Puebla, the nearby city of a million residents, southwest of Mexico City.

Clues to the hazards of future eruptions are coming from studying the remains of villages east of Popocatepetl destroyed during earlier events. These eruptions took place before the arrival of the Spanish in Mexico.

"These sites were found in the first place because local residents were scraping away and collecting the light ash and pumice found in this area in order to mix it with cement and make lightweight cement blocks," Kenneth G. Hirth, professor of anthropology, said. "Corn furrows were uncovered, and archaeologists from the Universidad de las Americas in Puebla began excavations."

Working with these archaeologists, Dr. Hirth and Penn State geologists began to reveal the history of the volcano.

"We are trying to see which geological tools can be used to answer the questions the archaeologists are asking," Maria S. Panfil, graduate student in geosciences, said. "The archaeologists want to know when the eruptions took place and the type of events that occurred. They also want to understand the extent of the area influenced."

However, this information can also be applied to the present and used to develop hazard assessments and evacuation



Geosciences graduate student Maria S. Panfil, left, and Kenneth G. Hirth, professor of anthropology look for clues to the hazards of future volcanic eruptions in the ashes of eruptions past.

Photo: Greg Grieco

tion plans for the nearby city and villages.

According to deposits at the archaeological site, an eruption of Popocatepetl first covered the village in 300 B.C. At this time, there was a plinian eruption that spewed ash and chunks of pumice far into the air. Plinian eruptions were described by Pliny the Younger of ancient Rome and were responsible for the destruction of Herculaneum and Pompeii.

"Judging from the deposits in the area, this plinian eruption threw debris nine to 18 miles into the air," Ms. Panfil said. She noted the 1994 eruption reached four miles in altitude.

The 300 B.C. eruption also had a lava flow that buried agricultural land nine miles from the volcano's cone. This lava flow dammed a river and formed a lake that filled with sediments.

"There was then a period of 1000 years of quiet from the mountain," Ms. Panfil said.

In about A.D. 700 there was another plinian-style event and a lahar—a volcanic mud slide. The mud slide followed a valley stream, meandering

15 miles and covering villages. A similar lahar today would engulf many small villages that were built on the remains of the previous mud slide. Of the 50,000 people evacuated during the 1994 eruption, those living in these villages were the last allowed to return to their homes.

This A.D. 700 series of events also included pyroclastic surges, clouds of explosive gas that act like bomb blasts. In the area where the Universidad de las Americas archaeologists are working there was no lava flow, but the pyroclastic surges destroyed the village.

The archaeological excavations offer the geologists a good timetable of eruptions. For example, while it is difficult to date eruptions from evidence on the volcano's cone, the archaeological evidence clearly shows that eruptions took place around 300 B.C. and A.D. 700. The eruption before these, according to the geologists, was in 1800 B.C., before the advent of settled agriculture in the area. The geologists, including Thomas W. Gardner, now at Trinity

University in San Antonio, Texas, are trying to determine the maximum area effected by the eruptions.

"Cholula, the site of the largest pyramid in Mesoamerica, is to the west of Puebla," Dr. Hirth said. "We would like to know if the eruptions had an impact in that area and how it effected agriculture in the Valley of Puebla."

Agricultural areas can recover from about four inches of ash and pumice deposited, but 10 inches destroys young plants and makes agriculture impossible, he said. Next season, Dr. Hirth, Patricia Plunkett and Gaviela Urutela of the Universidad de las Americas hope to expand the Tetimpa project to excavate in areas on the mountain slope. They will be looking for reoccupation of the area and when it occurred.

"The sloping areas where stripping of the ash and pumice would have happened most quickly are most likely the first places rehabilitated," Dr. Hirth said. "We would like to know how soon that reoccupation occurred."

Heat blast is cause of death in eruptions

Despite movie images of glowing rivers of lava engulfing inhabitants, deaths from volcanic eruptions are generally caused by blasts of extremely hot dust, debris and gas, according to researchers.

These common pyroclastic eruptions occurred during the eruptions of Mt. St. Helens, Pelee on the island of Martinique and Merapi in Indonesia, to name just a few. These events consist of chunks of hot rocks, dust and gas that cascade down the volcano's side like a snow avalanche, uprooting and charring trees near the explosion, cutting off the tops further away and only scorching vegetation further out.

"They can move as fast as 140 miles per hour. At Merapi volcano, they take about three minutes to move the four miles to populated areas," Barry Voight, professor of geoscience, said. "Once they start, there is no chance of outrunning them. The heavy block and ash flow tends to follow the existing channels, while the associated ash cloud surge moves laterally beyond the channel margins."

Such information about volcanic deaths could help pinpoint dangerous areas for residents and observers. The researchers are also looking at the physiological effects of the pyroclastic blast and suggesting protective measures for both residents and scientist observers.

The researchers investigated the Nov. 22, 1994, eruption of Merapi. While always known to be an active volcano, the mountain was exceptionally raucous for an hour before this event. Approximately 63 people died in the hospital and another 23 were seriously injured, but survived.

"We know the locations of people who were injured or died and hope that looking at the deposits in those areas can help us pinpoint dangerous areas whether at Merapi, or at some other volcano," Dr. Voight said.

"Unlike some pyroclastic events where victims died of suffocation, this Merapi event did not cause asphyxia," postgraduate student Ian Shelley said.

The researchers are trying to understand why asphyxia occurs in events like Mt. St. Helens, but not at Merapi.

—Andrea Elyse Messer

College of Engineering celebrates centennial

One hundred years ago a newly formed school at Penn State offered just three undergraduate programs to 143 students, taught by nine faculty members. What began modestly as the School of Engineering, has, over the last 10 decades, flourished into the nationally ranked College of Engineering that now boasts more than 70,000 living alumni.

Last week, the college kicked off its centennial celebration marking its 100-year growth into one of the nation's largest colleges of engineering with 11 departments and a broad range of undergraduate and graduate programs.

"On this occasion of the one century mark of the college's evolution," said Dean David N. Wormley, during the ceremony, "it is important for us to reflect on past accomplishments and to take note of those core values and characteristics which have led the college to its prestigious position today. Many of these characteristics will lay the foundation for our contributions in the next century."

In a letter congratulating the college on its historic accomplishment, President Bill Clinton wrote, "Excellence in education is the key to our future. For a century the faculty and staff of the College of Engineering have been offering an ideal learning opportunity for their students and preparing them for the responsibilities that lie ahead. Our nation relies on schools such as yours to supply the knowledge and skills necessary to compete in the 21st century. I am confident that The Pennsylvania State University College of Engineering will continue to endow future generations with expertise and guidance."

Over the years, the College of Engineering has achieved many innovations in education, research and service. As an example:

■ 1909 — The college established the nation's first baccalaureate program in industrial engineering and one the nation's first experiment stations;

■ 1911 — The college initiated the first formal program in engineering extension;

■ 1953 — The College of Engineering offered the nation's first associate degrees in engineering as part of a pioneering effort to develop two-year engineering technology programs;

■ 1955 — Penn State was the first educational institution to operate a licensed nuclear reactor, the Brookdale Reactor, with the college's researchers pioneering peaceful applications for atomic energy.



Celebration kickoff

David N. Wormley, dean of the College of Engineering, left, gives State College Mayor William L. Welch Jr. a College of Engineering banner during the college's centennial kickoff reception and start of National Engineers Week. This year also marks the centennial of the Borough of State College.

Photo: Kristie Guldner

■ 1965 — The College of Engineering formed a graduate program in acoustics, which today is the nation's largest and offers the world's only distance education program leading to a master's degree in that field.

■ 1976 — A team of researchers in the colleges of Engineering and Medicine developed the first surgically implantable, seam-free, pulsatile heart-assist pump to receive widespread clinical use.

■ 1990 — The National Science Foundation chose the college as one of seven institutions across the nation to participate in a special program to revitalize undergraduate engineering education in the United States.

Research capabilities in the college reached more than \$43 million in expenditures in 1994-95 and alum-

ni have made significant contributions to the nation, by serving as industrial leaders, astronauts, government officials and engineering professionals. For instance, research conducted in the petroleum laboratory under the direction of Merrell Fenske led to the standardization and evaluation of lubricating oils. And research to characterize insulation in the architectural engineering department helped lead to the definition of the R-factor for building insulation.

This year, the College of Engineering has more than 7,000 undergraduates and 1,600 graduate students enrolled in 25 disciplines, taught by more than 260 faculty members.

The centennial celebration continues throughout 1996 with special events planned during the year. In July, the college plans to bury a time capsule to commemorate its milestones.

Portions of Intercom on the World Wide Web

Each Thursday, you can find certain portions of the *Intercom* on the World Wide Web.

You can access front page stories, diversity issues, features, arts listings and the University Park Calendar by visiting the University Relations home page at URL <http://www.pubinfo.oud.psu.edu> and clicking on the link to *Intercom*.

In addition, you can view past issues of the *Intercom* dating back to Jan. 18, by going to the *Intercom* home page and clicking on the archive button.

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Requires a steady hand

Doug Smith, University glassblower for nearly 10 years, carefully holds a piece of fusilla between the chucks of a lathe to vacuum encapsulate it for energy change studies conducted by the Department of Ceramics. The glassblowing facility in Steidle Building on the University Park Campus is part of the College of Earth and Mineral Sciences. The shop produces custom-made glass pieces for research purposes, saving the University about 50 percent on most of the glasswork it would have to purchase.

Photo: Greg Grieco

University embarks on project to create jobs near Philadelphia through technology

By BARBARA A. HALE
science writer

The University recently announced a new initiative designed to create jobs by helping private companies develop commercial products at a Navy facility near Philadelphia, after the military leaves it in September.

As Bucks County's largest employer, the Naval Air Warfare Center (NAWC) Aircraft Division in Warminster, Pa., is home to one of the largest centers of research and development in the state.

K. Jack Yost, associate vice president for research and technology transfer, described the initiative to continue research at the facility at a press conference March 4 on the center grounds.

Dr. Yost heads Penn State's Research and Technology Transfer Organization (RTTO), which is serving as project coordinator for the effort. The commercial products developed by private firms will use

technologies developed at the military facility. The project is funded by a \$2 million grant from the Department of Commerce to the Federal Lands Reuse Authority of Bucks County.

Dr. Yost said that as part of this effort the University is in the process of negotiating for the privatization of the Inertial Navigation Facility which is on the Air Warfare Center site. Built in 1964 and estimated to have a replacement value of \$70 million, the facility is the only laboratory of its type in the U.S.

Penn State has proposed to the Federal Lands Reuse Authority to convert the facility into an economic development resource that could serve as a magnet for new industry and jobs. Under the terms of the proposal, the facility would continue to serve Navy needs but would also be available for the first time for use by industry.

If the University's plan is adopt-

ed, it would operate the Inertial Navigation Facility as a Navigation Sensors and Systems Research and Development Center within the Applied Research Laboratory with funding from the Navy.

The Inertial Navigation Facility is the Navy's primary research and development laboratory for state-of-the-art navigational systems. The facility has a unique building design and other features which provide a seismically stable research environment necessary for high-tech development. The facility's 12 granite test piers are bonded to bedrock 30 feet below ground to dampen movement. This stable environment plus unique instrumentation allows sensor calibration at an accuracy and precision unattainable anywhere else in the world.

Advanced inertial navigation devices being developed or tested at the facility have a wide range of

President goes to bat for funding

By LISA M. ROSELLINI
editor

In an attempt to gain more support and more dollars for the University, President Graham B. Spanier recently testified before both the state Senate and House of Representatives appropriations committees in Harrisburg.

Appearing first before the Senate on Feb. 27 and then before the House on March 5, Dr. Spanier fielded questions on issues from admissions to unfunded mandates, and raised several points about Penn State's value to the Commonwealth and the need for the \$298.5 million appropriation requested by the University.

Under the 1996-97 budget plan proposed by Gov. Tom Ridge, no increase in base funding for either the state-owned or state-related universities is included. According to Gov. Ridge's blueprint, Penn State would receive \$277.4 million — millions of dollars short of what is needed. Gov. Ridge proposed an increase of

See "Funding" on page 5

■ From the President

Dear Penn State Faculty and Staff: Many thanks to all of you who responded to our 1996 Faculty/Staff Survey. Your input is invaluable to our goal of making Penn State the best it can be—both as a place to work and as a leader in higher education.

The CQI Council is very pleased that nearly half of the people who received surveys chose to participate. I am especially grateful that more than 3,600 respondents took the time to write comments describing their ideas on what Penn State can do to improve. An independent firm, Diagnostics Plus, is compiling the survey results and preparing a report that is expected to be available to all academic and administrative units by the end of spring semester.

Your interest in and commitment to Penn State will help lay the ground-work for even greater successes. Thank you again for your contribution to this important undertaking.

Sincerely,

Graham B. Spanier

President Graham B. Spanier

See "Center" on page 4

DIVERSITY

New center to coordinate and reinforce diversity initiatives

By NANCY ANITA WILLIAMS
writer/editor

The Affirmative Action Office recently established the Center for Diversity Support and Education to consolidate and strengthen the University's commitment to enhancing diversity.

"The University offers diversity learning activities at all campuses and in all academic and administrative units. Establishing the center is an attempt to bring the planning and coordination of these activities together in one location," Bonnie Ortiz, director of the Affirmative Action Office, said.

"An outcome of Penn State's Diversity Strategic Planning process and the Staff Review and Development Plan has indicated a need for programming to help faculty, staff and students increase their understanding of diversity issues, and to improve their ability to interact with people from diverse backgrounds."

Diversity strategic planning, which all units undertook last year, has been successful in raising general awareness. Supervisors and employees now look for concrete ways to demonstrate ongoing commitments to diversity. However, the annual reviews have revealed a need for more support to be given to units where minorities are employed, as well as more support to minority employees who are working in a predominantly white workplace.

"This is a two-way street and we all need to take more responsibility for building and maintaining a positive, supportive environment," she said. "We would like to develop more programs through the center to address these issues."

"Understanding and Valuing Diversity," a course offered in varying lengths and formats to hundreds of Penn State employees over the last several years, is one of the programs that will be administered through the center.

"This class is an introductory diversity course," Ms. Ortiz said, "but one session is not enough to generate real change in individuals and institutions. We are getting requests for more in-depth classes and we plan to increase our offerings shortly."

Sandra Vactor, an affirmative action specialist in the Affirmative Action Office since 1993, has been appointed coordinator of diversity support and education for the center.

"My role is to coordinate the diversity programs — organize and centralize current diversity education and training programs and identify new offerings," she said. "The term diversity is so broad for many people that it is often confusing. I will work toward closing some of the gaps in understanding and easing the ambiguity some feel about diversity training and education."

Ms. Vactor, who was recently recognized by the Pennsylvania Department of Education for outstanding community education, plans to restructure diversity classes according to levels of understanding rather than by department or unit.

"People at different levels of understanding have different needs," Ms. Vactor said. "We will interview the diversity teams already in place, find out what their needs are and better coordinate those efforts."

She also will design and implement a "Train the Trainer" series of workshops.

"Having a core of diversity trainers in place will make it easier to manage a variety of programs and will better enable us to incorporate diversity training ideas from participants across the University," she said.

For more information about the center, please call (814) 863-0471, V/TDD.

Commission for Women banquet set for March 18 at Nittany Lion Inn

The 11th Annual Spring Banquet of the Commission for Women will be held on Monday, March 18, at the Nittany Lion Inn and will feature the executive director of the National Association of Working Women. The monthly meeting of the commission is scheduled for 1-4 p.m. before the banquet. The University community is invited to attend both events.

Ellen Bravo, executive director of 9105, National Association of Working Women, will speak on "The Job/Family Challenge: Not for Women Only." Dr. Bravo earned degrees in classical literature from Cornell and Cambridge universities, having attended Cambridge on a Fulbright Scholarship. Since founding 9105 in 1973, she has been instrumental in bringing job and family issues to the forefront. As a member of the federal Commission on Leave, she is actively involved in studying the impact on employers and workers of the Family and Medical Leave Act of 1993. In addition, she is a leading spokeswoman on balancing job and family, as well as other workplace issues. She appears regularly on national television and has been featured in a documentary as well as on numer-

ous local and regional programs. Dr. Bravo also conducts training sessions and workshops on a variety of topics, including sexual harassment and family issues in the workplace.

A reception is scheduled for 5:30 p.m., with dinner following at 6 p.m. Child care during the banquet is being provided by the Office of Human Resources/Family Life Department in Cedar Building. Banquet and child care reservations can be made by contacting the Commission for Women office at (814) 865-1683.

The monthly meeting of the commission includes a discussion of the Commonwealth Educational System Internship program, a conversation with Linda Pierce, coordinator of the Work/Family Life Unit in the Office of Human Resources, and reports from various committees. The final hour of the program will feature a discussion with President Graham B. Spanier and Robert E. Dunham, senior vice president and dean of the CES, on the system-wide impact on women of the reorganization of the University and ongoing budget concerns. For more details on this event call (814) 865-1683.

Slavic Festival promises good time March 22-24

The 18th Annual Slavic Festival, which showcases the cultural achievements of Pennsylvania's Slavic-American ethnic groups, will be held from 10 a.m. to 10 p.m. Friday, March 22, and Saturday, March 23; and from 1-6 p.m. Sunday, March 24, in the Ballroom of the Hetzel Union Building on the University Park Campus.

The festival will feature exhibits, demonstrations of folk art and live performances. There will be book and artifacts booths, an ethnic snack bar and special events for children on Friday from 10 a.m. to noon—including a balalaika and accordion duo and a storyteller. Exhibits of Czech, Slovak, Slovenian, Ukrainian, Polish, Croatian and Russian folk arts will be on display throughout the festival.

Some highlights of the event include:

■ Friday, March 22

—7 p.m., Penn State International Dancers

—8-10 p.m., The Polka Players

■ Saturday, March 23

—1 p.m., The Czechoslovak-Moravian Club Folk Dancers of Endicott, N.Y.; the Slaviana Folk Ensemble from McKees Rocks, Pa.; the Slovenian Cultural Organization Singers; and the Kazka Ukrainian Dancers

■ Sunday, March 24

—The Original Byzantine Men's Choir; accordion melodies of Galia and Dan; and the Penn State International Dancers.

There is no admission charge for the festival, which is sponsored by the Penn State Department of Slavic and East European Languages and the Penn State chapter of Dobro Slovo, the national Slavic studies honor society. For more information, contact the festival secretary, Michelle Weaver, at (814) 865-1352.



Accordion melodies by Galia and Dan.

Nominations due for commission

Nominations and applications to serve on the Commission on Racial/Ethnic Diversity, an advisory body to the president on matters affecting the racial/ethnic minorities of the University community, are being sought. Nominations are due no later than March 29.

The commission's membership includes faculty, staff, administrators, technical service employees, and undergraduate and graduate students appointed by the president to serve four years or in the case of students, until graduation. Terms begin July 1.

The commission is dedicated to enhancing diversity and is actively seeking a broad base of nominations, including self nominations, from all racial/ethnic backgrounds. For more information and nomination forms, call the commission office at (814) 863-8493. Nomination forms should be returned to 330 Grange Building.

DIVERSITY**■ Celebrating****Events planned to mark Women's History Month**

The following Penn State locations have scheduled events in celebration of Women's History Month in March:

■ Berks Campus

As part of Penn State Berks Campus' diversity lecture series, **Sandi Fremont Lucas** will speak on "Spying for the CIA: A Woman in a Man's World" at 4:30 p.m. Thursday, March 21, in the Perkins Student Center Theatre. The lecture is free to the public.

What is it like for a woman to work as a spy for the Central Intelligence Agency's directorate of operations? How does a woman succeed and survive in the highly secretive, male-dominated world of clandestine and covert operations?

Ms. Lucas, who is no longer "undercover," spent almost 15 years working as a CIA case officer before resigning in January 1994. She was a participant in the class action suit recently settled between the CIA and more than 200 female case officers. In her revealing lecture presentation, she provides the answers to a variety of frequently asked questions concerning the difficulties and the joys of being a professional woman, wife and mother.

Ms. Lucas has been featured in *U.S. News and World Report*, *Vogue Magazine*, *The Washington Post*, *The New York Times*, and *The Los Angeles Times* and has been seen on ABC World News. She will be featured in a five-episode series on female spies currently in production for Lifetime TV.

■ DuBois Campus

Women's achievements past and present will be chronicled during Women's History Month at the Penn State DuBois Campus with a March 27 program exploring women's roles in the matriarchal tradition of the Seneca Nation.

Storyteller **Michelle Dean Stock** will have native artifacts and historical materials on display. This midday program will begin at 12:15 p.m. in the Hiller Auditorium.

For more information about "The Role of Women in the Seneca Nation," call (814) 375-4756.

■ Penn State Harrisburg

The schedule for Penn State Harrisburg's Women's History Month observance includes:

March 15 — **Ann Van Dyke**, Human Relations Commission, "The Unbiased Work Environment: Dealing with Sexual and Racial Harassment," noon, Gallery Lounge.

March 18-22 — Video "Hearts and Hands," noon, Olmsted Lobby.

March 18 — **Linda Kerber**, University of Iowa, "Pasts We Tell Ourselves: Women, History and American Culture," 8:30 a.m., Eastgate Center.

March 18 — **Linda Kerber**, University of Iowa, "A Constitutional Right to Be Ladies: Women, Citizenship and Military Obligation," 7 p.m., Gallery Lounge.

March 19 — **Yvonne Milsap**, Harrisburg Area Community College, "Quilts and Women's Social History," noon, Gallery Lounge.

March 21 — **Louise Hoffman** and **Eric Epstein**, Penn State Harrisburg, "Women and the Holocaust," 12:30 p.m., Gallery Lounge.

March 22 — **Dorothy King**, Penn State Harrisburg, "Dramatic Readings: Living History," noon, Olmsted Auditorium.

March 25-29 — Video "One Fine Day," noon, Olmsted Lobby.

March 25 — **Cynthia Massie**, Penn State Harrisburg, "Women's Health: The Issue of Long-Term Care," noon, Gallery Lounge.

March 29 — **Toni DuPont**

Morales, Penn State Harrisburg, "Current Treatment...and Research Findings Concerning Stalking," 9:30 a.m., Gallery Lounge.

■ McKeesport Campus

An "Evening to Celebrate Women" at the Penn State McKeesport Campus is planned for 6 to 9 p.m. March 21 in the Frable Conference Center. The program is open to the public.

Workshop presenters and their topics are: **Orlana Darks**, a Penn State graduate who now owns her own Pittsburgh advertising agency, "Look and Leap Anyway;" **Brenda Hoffman**, Penn State McKeesport library assistant, "21st Century Employment Forecast;" **Regina McDonald**, commander, Pittsburgh Police Department, "Careers in Law Enforcement;" **Margaret Signorella**, associate professor of psychology/women's studies, "Gender Bias in the Classroom;" and **Cheryl Voelker**, pilot, "Flying the Skies."

Registration and a reception will be held from 6 to 6:30 p.m. From 6:30 to 8 p.m., participants may select and attend the various workshop presentations which will be repeated several times. At 8 p.m., a program of baroque music by Cecilia's Circle will be performed in the Buck Union Building stage area.

Early registration is encouraged. Call Penn State McKeesport at (412) 675-9010.

■ Penn College

Shelby Hearon, teacher and renowned author, will be appearing at 7 p.m. Thursday, March 21 to speak about her latest novel *Life Estates*. The reading will take place in Penn's Inn in the Campus Center as part of Penn College's Women's Series.

Ms. Hearon is the author of 13 novels, including *Hug Dancing* and *Owning Jolene*, which won an American Academy and Institute of Arts and Letters Literature Award and will soon be released as a film. She has won numerous awards including National Endowment for the Arts and John Simon Guggenheim fellowships for fiction, an Ingram Merrill grant and the Texas Institute of Letters fiction award.

For tickets, contact Penn College at (717) 327-4763.

■ Wilkes-Barre Campus

The Wilkes-Barre Campus has planned the following free activities in celebration of Women's History Month in March:

March 18: **Mildred Pierce**, with lecture on film noir/women's "weepies" and women stars in the 1940s.

March 20: Exhibition volleyball game featuring the campus women's volleyball team from 6-9 p.m. in the Athletics and Recreation Building.

March 25: *Sweetie*, with talk on nongender narrative film and women directors.

March 27: **Lynda Goldstein** will present a lecture titled "Reproductive Technologies" in Room 14 in the Center for Technology from 3-5:30 p.m.

March 28: "Role of Women in Other Cultures," featuring female students, will be the topic of a panel discussion at noon in Hayfield House 106.

April 1: *Vagabond*, with lecture on European film industry and auteur theory.

Diversity Briefs**Film and talk about Black/Jewish relations**

"The Garden," a story about the conflict between a Holocaust survivor who blames blacks for problems in his neighborhood and his neighbor, an African-American, who blames Jews for his job loss, will be held tonight at 6:30 p.m. in the Palmer Lipson Auditorium on the University Park Campus. A discussion led by **Charles**

Dumas, the film's writer and director, and **Daniel Walden**, professor of American studies, will follow.

The event is part of the monthly film series organized by Hillel—the Foundation for Jewish Campus Life, and is co-sponsored by the Palmer Museum of Art, the Department of Comparative Literature, Jewish Studies Program and Congregation Brit Shalom.

Professional Women host talk on stress

"Family Living in the '90s, We're All in This Together," a talk by **Linda Duerr**, director of the Child Development Lab, will be presented at noon Tuesday, March 19, in the Living Center, Henderson Building on the University Park Campus. The talk, which will focus on the stresses of family life in the '90s, is part of the brown-bag

lunch meeting of the Professional Women of Penn State, which begins at 11:50 a.m.

Professional Women of Penn State is a grass-roots group coordinated by University women in which participants can develop and maintain a communications network and serve as a resource for others. Attendance by both male and female faculty, staff and students is welcomed. For more information, contact (814) 863-0241.

Chamber of Commerce/Penn State team up in redevelopment effort

The African-American Chamber of Commerce of Philadelphia has joined a Penn State-led effort to deal with the loss of Bucks County's largest employer—the Naval Air Warfare Center Aircraft Division in Warminster, Pa. (See related story on page 1.)

The chamber and Penn State's Research and Technology Transfer Organization (RTTO) recently joined together to ensure minority participation in the technology partnerships that are created by the redevelopment effort. The effort is supported by a \$2 million grant from the U.S. Department of Commerce.

The Warminster center is being relocated to Lexington Park, Md., as part of the Department of Defense's base realignment and closure program. Bucks County could lose as many as 4,000 high-tech jobs as a result of the relocation. This includes 1,600 jobs at the high-tech companies that serve as contractors to the base.

Penn State's RTTO is leading a technology transfer effort designed to help private companies expand and create new jobs by developing commercial products using technologies developed at the military facility.

Under the direction of **Dennis Baxter**, president of the African-American Chamber of Commerce of Philadelphia, the chamber will identify minority business and academic capabilities and facilities that complement the Warminster center's technologies. Specifically, the chamber will develop a minority technology business directory and identify minority Warminster center employees and professional service contractors to participate in the redevelopment effort. The chamber also will identify minority faculty members in the region, including those at historically black colleges and universities, and assess their willingness to participate in technology transfer programs and in research and development joint ventures.

All of the major technology development and technology transfer organizations serving southeastern Pennsylvania are participating in the project. These include The



Stable environment

The Inertial Navigation Facility in Warminster, Pa., is uniquely designed to provide a seismically stable research environment.

Photo: Courtesy of the U.S. Navy

Ben Franklin Technology Center of Southeastern Pennsylvania, the Delaware Valley Industrial Resource Center and RTTO's PENNTAP, as well as the Philadelphia African-American Chamber of Commerce.

The Federal Land Reuse Authority of Bucks County will oversee the program. The authority was the recipient of the \$2 million Economic Development Administration grant from the Department of Commerce, \$900,000 of which will be used to support the RTTO technology transfer activities. The remaining funds will support a revolving loan program for companies engaged in commercializing products spun off from technology developed at the Warminster center.

Paul Hallacher, RTTO director of program development, designed the program in partnership with Bucks County officials and other participants. **Louis Naglak**, RTTO director of Economic Adjustment Programs, leads the Penn State effort.

—Barbara A. Hale

Center

continued from page 1

potential commercial applications. Advanced vehicle navigation system, for example, are increasingly being applied in automobiles, trucks, pleasure boats, buses and trains as well as in aircraft and ships.

Other devices for land and ocean navigation and positioning have potential applications in environmental protection including animal migration studies and determining

precise locations of environmentally hazardous sites. They can also enhance public safety by improving search and rescue efforts, emergency vehicle tracking and drug enforcement efforts. In addition, the devices can be used to reduce commercial shipping costs by providing a capability to track ships, trucks, and their cargo.

At the press conference, Dr. Yost was joined by Congressman **James C. Greenwood**, R-8th District; state legislators **Thomas Corrigan**, D-Bucks, **Thomas Druce**, R-Bucks, and **Roy Reinard**, R-Bucks; and officials from Warminster and Northampton townships and Ivyland Borough, who praised the effort. The event was hosted by Bucks County Commissioner **Charlie Martin**.

Penn College becomes training facility for world's leading aircraft engine manufacturer

Textron Lycoming and Pennsylvania College of Technology have entered into an agreement which will establish Penn College as the worldwide authorized training center for the world's leading producer of general aviation aircraft engines.

Through the five-year contract, the college's Technology Transfer Center will provide training for Textron Lycoming's domestic and inter-

national customers and employees. The company, based in Williamsport, Pa., has produced more than 260,000 piston aircraft engines—which power more than 85 percent of the new general aviation aircraft produced in the world. The company is also the only piston engine manufacturer producing certified engines for both aerobatic and helicopter applications.

Most of the training will take

place at Penn College's **Kathryn Wentzel Lumley Aviation Center** at the Williamsport-Lycoming County Airport in Montoursville. It is expected that up to 400 individuals will receive training each year.

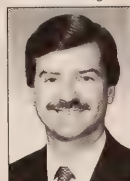
The addition of Textron Lycoming's program complements the transfer center's other offerings with Microsoft Corp., Novell and AutoDesk.

Associate vice president to leave for Minnesota

Bradford E. Choate, associate vice president for development and alumni relations, has been named president and chief executive officer of the Minnesota Medical Foundation, effective April 8.

The Minnesota Medical Foundation raises private funds to support the research and educational mission of the University of Minnesota Medical Schools. Founded in 1939, the foundation has assets of about \$130 million and endowments totaling about \$105 million.

Mr. Choate came to Penn State in March 1990. He helped to organize successful fund-raising efforts for the Bryce



Bradford E. Choate

Jordan Center (\$23 million in gifts), the Paterno Libraries (\$1.4 million) and the biomedical research building at The Milton S. Eshelby Medical Center (\$11 million).

Between July

1, 1990, and June 30, 1995, the University's annual private gift income increased 33 percent, to almost \$83 million. The number of alumni and friends making gifts increased 15 percent, to 108,000. During that same time, the Office of University Development won eight national awards from the Council for Achievement and Support of Education for achievements in fund raising, including the 1995 Circle of Excellence award for overall fund-raising performance.

Mr. Choate previously served as director of corporate and foundation relations at The Ohio State University. He is a native of Illinois and a graduate of Southern Illinois University.

United Way gives year-round help

United Way of Centre County would like to remind people that the money they pledge during the fall fund-raising campaign is working year-round for their communities. Last year, Penn State employees helped United Way of Centre County raise nearly \$1.3 million.

As the last source of flexible funding for human services in the community, United Way is local. Sixty-five percent of the money raised comes from employees in the workplace, with another 20 percent coming from employers. Money raised for United Way stays in the region donors designate as recipient. Local volunteers distribute the funds.

Advocacy network spreading Penn State message with smart mix of old and new technologies

By DOUG STANFIELD
technology editor

The ground may still be frozen solid, but technology is putting some new warmth into the annual effort to encourage state lawmakers to support the University's appropriation request.

The World Wide Web, e-mail, teleconferencing and phonofaxes have joined letter-writing campaigns and good, old-fashioned personal visits as methods to communicate the University's need for more funding.

Technology has long been used by the University to circumvent mountains and miles to deliver information and education to people in the state's nooks and crannies.

"In rural areas like this one, people are location-bound and financially strapped, and going away to school may not be an option for them," said alumna Cheryl Plummer, a county commissioner in Franklin County and a member of the Legislative Advocacy Network (LAN) group at the Penn State Mont Alto Campus. "With the technology Penn State is using and making available, people can be exposed to the best minds Penn State has to offer."

But that same technology, with some new twists, is now being used to deliver the University's budget message to the lawmakers' home districts. It is an organized effort to mobilize volunteers from the extended Penn State family of alumni, students, faculty, friends, staff and campus advisory board members to communicate effectively with state legislators on issues which affect the University's many activities.

"If we're going to be able to meet the needs of our communities around the state, it's essential that we be efficient in pulling resources from many locations," Helen E. Caffrey, director of Commonwealth Relations for Penn State, said. "Technology is the key to being able to do that."

Ms. Caffrey, who was executive director of the state Senate Education Committee for 17 years, came to Penn State in 1993 to organize the LAN. This year, she is leading workshops with groups from all Penn State locations using PicTel, a teleconferencing system that eliminates geography and time as significant barriers to communications between campuses.

"I'm keenly aware that legislators need to hear first-hand from constituents how Penn State is already helping their communities and what more we can do," she said.

On a recent Friday afternoon, one of the last PicTel sessions brought about 20 faculty, staff and



The LAN at work

State Sen. James J. Rhoades (center) meets with David Donlin (left), executive director of the Schuylkill Chamber of Commerce, and Andrew Tellep, instructor at Schuylkill Campus, both members of that campus' LAN.

Photo: Andy Matsko/Pottsville Republican

students into a room on the Beaver Campus near Pittsburgh. From a fourth-floor conference room in Old Main, Ms. Caffrey, Carol Hermann, senior vice president for administration, and Diane Brown, associate dean in the College of Agricultural Sciences and associate director of Cooperative Extension, met with them and went over the appropriation request, the goals set by President Graham B. Spanier and strategies the campus could use to influence their elected representatives. Included in the presentation was a video message from the president, a slide presentation run from a Powerbook laptop computer and the ability to switch from graphics on the television screens back to live shots of the participants.

This was the 20th such workshop held since mid-February—and the third that day.

"The technology makes these efforts much more economical and effective than in the old days," said Dr. Brown, who remembers when three or four faculty and administrators might have to climb in a car and drive four hours to one of the campuses, give an hour's presentation, and then drive four hours back to University Park. Each PicTel session, in comparison, costs a mere 30 cents a minute and lasts for about 90 minutes.

Andrew Tellep, an instructor in computer science and instructional development specialist at the Penn State Schuylkill Campus, is a member of Schuylkill's LAN.

"Last year," he said, "we were able to bring lawmakers how we teach by bringing them into the classrooms. We demonstrated how our labs connect to the Internet and gave real examples of how we serve our community through network connections. Not only have we demonstrated our strengths, but when we say 'We could do more if...' a legislator knows we're not just asking for more money for no good reason."

"This year is even better. The PicTel session...is a very economical and comfortable way to conduct business."

One legislator who visited Schuylkill Campus during the fall Legislators on Campus Day, was state Sen. James J. Rhoades, chairman of the Senate's Education Committee and member of the Appropriations Committee. The visit, he said, gave him a concrete feeling for what Penn State is already doing and made him intimately aware of the benefits of research, and its impact on the 29th District he serves.

"Technology is placing a whole new level of demand on lawmakers," he said, "but it is as important that we in rural areas have access to information as much as anyone else, and this is one way to get it."

Now that the PicTel workshops are over and two "phonathon" sessions to alumni and legislators are in the past, LAN members will be limbering up their letter-writing arms to make the case to lawmakers and editors of newspapers around the state. In March and April, LAN teams will meet with legislators in their home districts asking them to support Penn State's appropriation request.

"Through it all, we've been illustrating the actual ways Penn State is meeting the need for quality undergraduate and graduate education in every part of the Commonwealth, and how it is a major economic catalyst," Ms. Caffrey said. "We plan to keep it up right until the end."

For more information on the LAN and to find ways to communicate directly with your legislator, visit the University Relations home page at

<http://www.usps.edu/> and follow the link to "Penn State's Online Legislative Advocacy Network." If you need help contacting your legislator, contact Helen Caffrey at hcc3@psu.edu, or call her office at (814) 863-0327.

Funding

continued from page 1

\$762,000 over last year's funding for agricultural research and extension programs.

"The governor has proposed a freeze in the appropriation that supports the basic educational mission of Penn State," Dr. Spanier said. "This budget would weaken Penn State and erode some of our recent progress."

The president pointed out to legislators that the appropriations request that is before them is the lowest percentage appropriations increase requested in the modern history of the University.

"I did this in the spirit of recognition of the state's availability of funds and priorities. What we are requesting is realistic, necessary and reasonable," he said. "Penn State is a good investment for the Commonwealth."

The University is asking for a 4.95 percent increase in its educational and general appropriation and special help in two critically important areas: agricultural research and extension and telecommunications.

"I want to note that we are not simply coming to the state to ask for help without helping ourselves," Dr. Spanier told the lawmakers. "We have reallocated millions of dollars from within our budget in the last four years...our budget plan for the next year includes additional internal budget reductions."

"I feel a mix of optimism and pessimism," Dr. Spanier told members of the University Faculty Senate upon his return from the state Senate session. "I'm pretty optimistic about their moral support. We'll have to see how that translates into real support in dollars."

Although the president said he is "determined to see at least a modest pay increase" for Penn State employees, the 3 percent originally pro-

posed to the Legislature "would be a stretch for us."

"This will be a very difficult year for us in terms of budget," he said. "The \$762,000 proposed increase for ag-related efforts will not even keep pace with inflation...add in things like unfunded mandates such as increases in employee benefits, a mandated increase in Penn State's contribution to the State Employees Retirement System, increasing fuel and utilities costs, and you can see that it will be a difficult year."

Compounding these problems is the fact that the state is currently facing its own fiscal challenge—an anticipated \$600 million cut in this year's \$9.5 billion federal allocation.

The House, Senate and governor must all agree on a fiscal plan for the state, which will include the University's allocation, by July 1.

—Alan Janesch contributed to this story.

LECTURES

Teaching and learning series continues March 19, April 2

The 1995-96 Conversations in Teaching and Learning will continue Tuesday, March 19 from 3:30-5 p.m. in the Alumni Lounge, Old Main, on the University Park Campus, with "Building a Just and Disciplined Community."

Based on the six principles espoused by the late Ernest L. Boyer in *Campus Life: In Search of Community*, the series looks at the components necessary to build a community of learning. The series, started last fall, is designed to encourage further exploration of the notion that "...every college and university should strive to be...an educational

ly purposeful community; an open community; a just community; a disciplined community; a caring community; and a celebrative community."

Scheduled for Tuesday, April 2 from 3:30-5 p.m. in the Alumni Lounge is "Building a Caring and Celebrative Community."

All members of the Penn State community are welcome to attend either event. To register, call the Instructional Development Program at (814) 863-2599. The series is sponsored by the Undergraduate Student Government Senate/Academic Assembly and the IDP.

Monet's self-portraits are the subject of March 20 lecture

Mary Mathews Gede will present a lecture titled "Monet's Self-Portraits: Records of Critical Moments" at 12:00 p.m. Wednesday, March 20, in the Palmer Lipson Auditorium of the Palmer Museum on the University Park Campus.

During a career that spanned more than six decades, Claude Monet created only three self-images. One of these, sequestered in a private collection, is unavailable for study; this lecture focuses on his two remaining self-representations, painted in 1886 and 1917, respectively.

Dr. Gede began her career as a clinical psychologist. She became an art historian in what she describes as "a mid-life reincarnation." She

received her Ph.D. from Northwestern University in 1972, offering as her dissertation the study that became the basis for "Picasso-Art As Autobiography." She served as editor of the three-volume interdisciplinary series "Psychoanalytic Perspectives on Art" and also has contributed to numerous art journals and psychoanalytic publications. Her most recent book, *Looking at Art from the Inside Out*, a collection of essays, was published by the Cambridge Press in 1994.

This free lecture is co-sponsored by the Institute for the Arts and Humanistic Studies and the College of Arts and Architecture Department of Art History.

Anthropologist to speak on sexuality in adolescents and the maturation process

Benjamin Campbell, visiting assistant professor of anthropology at Northwestern University, will speak from noon to 1 p.m. Thursday, March 21, as part of the Biological Issues in Population Research Seminar Series sponsored by the Population Research Institute. Dr. Campbell will be speaking on "Adolescent Sexuality: Empirical Tests and Biocultural Models."

Recent theoretical work has focused attention on the timing of pubertal maturation as a critical element for human reproductive strategies. Empirical confirmation has been less forthcoming, in part due to the lack of detailed understanding of

the role of pubertal maturation in adolescent sexuality. Data from the United States and Zimbabwe provide cross-cultural confirmation of the importance of secondary sexual characteristics for the onset of sexual behavior. Additional analyses suggest that personality characteristics associated with sensation-seeking may play a separate role. The implications of these results for biocultural models of adolescent sexuality will be discussed.

The seminar will be held in 406 Oswald Tower on the University Park Campus. If you have questions, please contact Kris at (814) 863-9984.

UC professor to discuss developmental biology

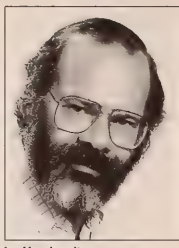
Ira Herskowitz, a professor in the department of biochemistry and biophysics at the University of California at San Francisco, will give the 1996 Marker Lectures in Genetic Engineering from March 25 to 27, on the University Park Campus.

The three-lecture series, titled "Using Mating Types to Address Fundamental Questions in Cell and Developmental Biology," is sponsored by the Eberly College of Science and is open to the public.

The lecture schedule includes: "Yeast Mating Types: Control of Cell Specialization and Regulation of the Cell Cycle by Anti-Mitogenic Factors," at 8 p.m. Monday, March 25, in 101 Classroom Building; "Control of Cell Polarity by Endogenous Programming and by Extracellular Signals," at 4 p.m. Tuesday, March 26, in 102 Classroom Building; and "Mating Type Switching: A Programmed Genetic Rearrangement and Cellular Asymmetry," at 5 p.m. Wednesday, March 27, in 104 Classroom Building.

Dr. Herskowitz is a microbial geneticist who studies fundamental cellular problems using common baker's yeast.

He was elected to the National Academy of Sciences in 1986 and was a Fellow of the MacArthur Foundation from 1987 to 1992. He was a visiting professor at the College de France (Paris) in 1992, and has been recognized with numerous awards both for his teaching and research. He is a member of the National Academy of Sciences and currently serves on the editorial boards of *Cell*, *Trends in Genetics*, *Current Biology* and *Genes to Cells*. He also is a



Ira Herskowitz

reviewing editor for *Science*. He co-chaired two Gordon Conferences and currently serves on the Scientific Review Board in Genetics for the Howard Hughes Medical Institute and the Board of Scientific Counselors for the National Cancer Institute.

Dr. Herskowitz joined the faculty of the University of California at San Francisco in 1981 as a professor and was appointed chair of the Department of Biochemistry and Biophysics in 1990. He received his bachelor's degree in 1967 from the California Institute of Technology and his doctoral degree in 1971 from Massachusetts Institute of Technology. Before joining the faculty at the University of California at San Francisco, he was a professor in the department of biology at the University of Oregon.

March 15 talk to focus on reshaping graduate education

How flexible are our new Ph.D.s? Can they meet the changing demands of the '90s? Do we have too many, not enough or just the right amount of doctoral students to satisfy market demand?

These are a few of the questions that will be examined by Philip A. Griffiths, director of the Institute for Advanced Studies at Princeton University, at 4 p.m. Friday, March 15, in Room 112 Kern Building on the University Park Campus.

Dr. Griffiths, who chairs the Committee on Science, Engineering and Public Policy of the National Academy of Sciences, the National Academy of Engineering and the Institute of Medicine, will discuss the 1995 report, "Reshaping the Graduate Education of Scientists and Engineers."

In association with the 1996 Graduate Research Exhibition taking place March 15-16, Dr. Griffiths will discuss the report and its effect on graduate education at Penn State. The recommendations of the committee include providing more options

while pursuing a doctorate, better career guidance, controlling the time to obtain a degree and providing a broader education base, including internships or minors. The report also cautions students to obtain information on the employment pattern of a school's graduates, pursue a broad range of experiences and press advisers for career options and realistic employment expectations.

Before joining the Institute for Advanced Study in 1991, Dr. Griffiths was provost and James B. Duke Professor of mathematics at Duke University for eight years. Previously, he was a professor of mathematics at Harvard University.

He received his bachelor's degree from Wake Forest University in 1959 and his doctorate from Princeton in 1962. He is a member of the National Academy of Sciences, the National Science Foundation and the American Philosophical Society. His visit is jointly sponsored by the Eberly College of Science and the Graduate School.

More lectures

Johns Hopkins professor to address U.S. salaries

Robert Moffitt will present "Recent Trends in the Dynamic Structure of Earnings and Earnings Mobility in the U.S." at 1 p.m. Tuesday, March 19, in the Gallery of the Hetzel Union Building on the University Park Campus. Dr. Moffitt is a professor in the Department of Population Dynamics at the Johns Hopkins University.

Professor Moffitt, a nationally recognized expert in the incentive effects of the welfare system, has published numerous papers in the areas of labor economics, economic demography and econometrics. He has taught at Rutgers University, Brown University and the Johns Hopkins University, and is co-editor of the *Review of Economics and Statistics*; he is on the edi-

torial board of the *American Economic Review*, and an associate editor of the *Journal of Population Economics*, the *Journal of Public Economics and Labour Economics*. He is a member of the Committee of Population of the National Academy of Sciences, a member of the Board of Overseers of the Michigan Panel Study of Income Dynamics, a research associate of the National Bureau of Economics Research and an affiliate of the Institute for Research on Poverty.

His seminar is the third and final presentation in the 1995-96 seminar series sponsored by the Department of Economics and the Institute for Policy Research and Evaluation (IPRE). For more information, please contact Mark Wilhelm at (814) 863-7416.

New Jersey mining districts to be focus of March 20 discussion

New Jersey's world-famous Franklin-Sterling Hill mining district will be the topic of a March 20 talk in Room 301 Steidle Building on the University Park Campus.

Richard Hauck, president of the Sterling Hill Mining Museum will speak on "A Priceless Hole in the Ground" at 7:30 p.m. In his talk, Mr. Hauck will describe his efforts to save the mine for posterity. The mine was purchased after the New Jersey Zinc Co. ceased operations, and the mine

buildings have been converted into a museum.

Mr. Hauck, a mineral collector for more than 45 years, is past president of the New Jersey Mineral Society and past president of the Franklin Mineral Museum. He also was a founder and the first president of the Franklin-Ogdensburg Mineral Society and is currently head of the Sterling Hill Mining Museum in Ogdensburg, N.J.

The talk is free to the public.

Dietary guidelines are topic of annual food science lecture

"Nutrition Science and Policy: Developing the Dietary Guidelines" will be the topic of the annual E.A. Day Memorial Lecture Series in Food Science on March 25.

Barbara O. Schneeman, dean of the College of Agricultural and Environmental Sciences at the University of California at Davis, will present the talk at 3:30 p.m. in 101 Agricultural Sciences and Industries Building on the University Park Campus. Dr. Schneeman became dean at UC-Davis in 1993 after serving as associate dean of the college and chair of the Department of Nutrition. Her research interests include the physiological and nutritional effects of carbohydrates and fiber in the diet using both animal models and human clinical studies.

She also serves as director of programs for the Division of Agricultural

and Natural Resources at UC-Davis and is a member of the Institute of Food Technologists and the American Institute of Nutrition. She has served on numerous national committees and, in 1985, received the Samuel Case Prescott Award for research from the Institute of Food Technologists.

The lecture honors Edgar A. Day, executive vice president of International Flavors and Fragrances Inc., who received his M.S. and Ph.D. degrees from Penn State in 1955 and 1957 respectively. Before his death in 1973, he was affiliated with the University of Maryland and Oregon State University.

For more information, contact J. Lynne Brown, associate professor of food science, in 111 Borland Laboratory, or by phone at (814) 863-3973; or e-mail jlb@psu.edu.

■ In Harrisburg

Medical series concentrates on health and disease in Pennsylvania

A new four-lecture series sponsored by The Hershey Medical Center, "Prognosis for the Decade," is designed to inform members of the state Legislature, state government agencies and those involved in health care policy about projections on health and disease throughout Pennsylvania. All sessions will be held at the Penn State Downtown Center in Harrisburg. To register or for more information, contact the center at (717) 783-0433. The following lectures are scheduled:

—Tuesday, March 19 at 8:30 a.m.: "The Academic Health Centers of Pennsylvania: A New Paradigm for Survival" presented by Dr. C. McCollister Everts, CEO, The Hershey Medical Center and dean of the College of Medicine.

—Tuesday, April 30 at 8:30 a.m.: "The Fight Against Cardiovascular Disease: Where Are We?" presented by Dr. Gerald Naccarelli, chief, Penn State Cardiovascular Center, Division of Cardiology.

—Wednesday, May 8 at noon: "The Future Status of Rural Health" given by Dr. James Herman, associate dean for primary care and chair of the Department of Family and Community Medicine; The Hershey Medical Center.

—Wednesday, June 26 at 8:30 a.m.: "Cancers: Can We Control Them?" presented by Dr. Rodrigue Mortel, associate dean and director, Penn State Cancer Center.

Panel presentation on ethnic conflict set for March 20 at Eastgate Center

"Ethnic Conflict: The Search for Peace," a panel presentation given by international visiting scholars, will be held from noon to 1 p.m. Wednesday, March 20, at the Penn State Harrisburg Eastgate Center.

This discussion presents a unique opportunity to hear the experiences of three scholars representing three different countries on the day-to-day ordeals of living in conflict and the approaches taken at both an individual and country-level to overcome it.

Walid Al Khatib, chief field education supervisor for the United Nations Relief Works Agency in Lebanon, Lela Jakovlevska-Josevska, school psychologist, Macedonia, and Olga Kamarau, acting head, Department of Teacher Education at the University of Namibia, Namibia, will give presentations. All are international visiting scholars at Penn State who are in residence at the University as part of the Hubert H. Humphrey Fellowship Program.

The workshop is free, but registration is necessary to ensure adequate seating. To register, call the center at (717) 772-3590.

State and federal officials to talk about sustainable development March 25-26

Penn State Harrisburg, five state departments and the U.S. Environmental Protection Agency are joining forces to co-sponsor a two-day conference March 25 and 26 in Harrisburg titled "Building a Sustainable Future for Pennsylvania." Gov. Tom Ridge will kick off the conference with remarks at 9 a.m.

A report prepared for the United Nations by the World Commission on Environment and Development in 1987 challenged the world to adopt a new way of thinking about potential conflicts between environmental protection and economic development.

The report called for a world political transformation that supports "sustainable development" in which the needs of the present are met without compromising the ability of future generations to meet their needs.

The conference will examine sustainable development programs that have been initiated at the international, national, state and local levels throughout the world. The conference also will look at sustainable development issues that are most relevant in Pennsylvania, and the barriers to sustainable development programming. Finally, the conference will explore whether Pennsylvania should and how it might move toward sustainable development programming.

The conference boasts an impressive list of speakers and panelists — local, national and international — headed by Don Brown, international activities specialist for the EPA.

Registration and information on the conference is available by calling Margaret Shaw at (717) 948-6505.

The ARTS

AT PENN STATE



Musician at Penn College

Grammy Award nominee Gordon Lightfoot will perform at the Community Arts Center in Williamsport, part of Penn College, at 8 p.m. March 28. For information on tickets, call the center at (717) 326-2424.

Faculty recital

James Lyon will present a recital of music for violin solo and for violin and piano duo at 8 p.m. Friday, March 15, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Timothy Shafer will collaborate with Mr. Lyon in works by Faure, Vitali and George Crumb. Both performers are associate professors in the School of Music.

The concert is free to the public.

Odyssey on WPSU

On the next Odyssey Through Literature broadcast, Misao Miyoshi of the University of California at San Diego and Susan Napier of the University of Texas at Austin discuss with **Leonard Rubinstein** the lives and works of Japanese Nobelist Kenzaburo Oe and his compatriot Yukio Mishima.

Guided by Rubinstein's inquisitiveness, the guests explain the juxtaposition of Oe and Mishima as literary figures.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM. A complete schedule can be found on the Odyssey Through Literature site on the World Wide Web at URL <http://mick-ey.la.psu.edu/complit/odyssey/odyssey.htm>

Pianist at Hazleton

Pianist **Calvin Jones** will perform at 8 p.m. Monday, March 18 at the Penn State Hazleton Campus.

Calvin Jones' music incorporates classical and popular themes in the Windham Hill genre. Mr. Jones has toured extensively throughout the country playing at concert halls and university campuses. His many credits include soundtracks for TV advertisements for such clients as McDonalds and Hallmark. The performance is open to the public.

Bach's Lunch

The Penn State Concert Choir, directed by **D. Douglas Fisher**, professor in the School of Music, will perform for the Bach's Lunch concert series at 12:10 p.m. Thursday, March 21, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute free concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The Concert Choir consists of 64 singers. About two-thirds of the members are music majors, with the remaining members coming from other majors at Penn State.

The Bach's Lunch concert will also include works by **Bruce Trinkley**, composer and associate professor of music.

The audience is invited to take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the Bach's Lunch performance. Coffee and tea will be provided.

"Frankly Funny Stories"

The University Readers will present three "Frankly Funny Stories" at 8 p.m. Friday and Saturday, March 22 and 23, in Kern Auditorium on the University Park Campus. The performance is free.

Penn State students will perform the voices of the characters and a little of the gesture and movement from the selections. Readers theatre employs the storytelling skills of the oral tradition to perform works of literature verbatim. The focus is on the audience's imagination, as in radio drama, with some gesture, costume and lighting for added color.

Visual artist at Allentown

Visual artist **Lawrence F. Sykes** will present a slideshow/talk and gallery presentation at the Penn State Allentown Campus at noon March 27. A Jamaica Plain resident, Mr. Sykes recently retired as professor of art at Rhode Island College. His list of exhibitions include The Rose Museum, The Fuller Museum, the Museum of NCAA and The Newport Art Museum.

Mixed media in Pattee

An exhibition of works by **Steve Thompson** will be on display in Pattee Library's East Corridor Gallery through March 31.

The exhibition of mixed media works incorporates photography and computer art and explores the added dimension of the World Wide Web. Mr. Thompson's work with digital imaging is now globally accessible via the Internet and the Web.

Mr. Thompson is currently working on degrees in the College of Communications with a major in media studies and in the College of Arts and Architecture with a major in integrative arts.

Country star in Williamsport

Platinum-selling country star **Doug Stone** will perform on stage at the Community Arts Center in Williamsport at 7:30 p.m. Friday, April 19. Opening the show for him will be Canada's 1994 Country Music Association "Vocalist of the Year," **Patricia Conroy**.

Georgia native Stone has logged eight No. 1 singles since 1990. His albums have gone gold four times and platinum twice, featuring such uptempo stompers as "Born in The Dark," "I'd Better Be Off In A Pine Box" and "Fourteen Minutes Old." His newest CD release, "Faith In Me, Faith In You," has already climbed to No. 1.

Ticks for this event are \$30, \$25.50, \$20.50 and \$18.50. Tickets go on sale Monday, March 18 at the Community Arts Center, a part of the Pennsylvania College of Technology. For more information, call the box office at (717) 326-2424.



Harlem Globetrotters

Touring all over the world for 70 years, the world famous Harlem Globetrotters will now bring their act to the Jordan Center on Monday, March 18 at 8 p.m. Tickets for the event are \$13, \$11, \$9, plus limited VIP seating for \$20.

Arena football coming in April

The fast-paced and furious action of arena football will kick off its 1996 season with an exhibition game between the Albany Firebirds and the Connecticut Coyotes at the Bryce Jordan Center at 7:30 p.m. Friday, April 19. Tickets are \$20 and \$15 for reserved seats, with a \$5 discount for Penn State students (limit two tickets per student i.d.). A portion of the proceeds of the game will be donated to the planned Penn State Sports Hall of Fame to be built across the street from the Jordan Center.

On tap...

■ **Thunder Nationals** - Monster Truck Racing at 8 p.m. March 23 and 2 p.m. March 24. Tickets are \$12.

■ **Jackson Browne**, singer/composer/political activist, coming March 29. Tickets for this performance are \$20.50, \$22.50 and \$32.50.

■ **Tim McGraw** and **Faith Hill** will play at 7:30 p.m. Sunday, March 31. Tickets are \$24.50 (students receive \$2 discount—limit two tickets per student i.d.).

■ **Steve Miller Band** to perform at 7:30 p.m. Wednesday, April 17. Tickets are \$20 for circle seats and \$15.75 all other.

Tickets for these events can be purchased at the Jordan Center Box Office, selected Unimarts throughout Pennsylvania and the Penn State Campus Ticket Outlets in Altoona, Erie, Hazleton and Reading, or charged by phone at (800) 863-3336.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, March 14

The Theatre Workshop in Diverse Cultures, 3:30 p.m. and 5:30 p.m., 6 Arts Bldg. Presents "Molly Sweeney." For reservations, call (814) 863-9413.

Hillel, 6:30 p.m., Palmer Union Auditorium. "The Garden," film and talk on Black/Jewish relations.

Friday, March 15

■ Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Kay Picart on "Asian Art at the Palmer Museum."

Office for Minority Faculty Development Workshop, 2 p.m., 114 Kern Bldg. Hector Flores on "Publishing."

Rainbow Forum, 3:30 p.m., Wilkinson Lounge, Eisenhower Chapel. Forum will focus on integrating gay, lesbian and bisexual issues into curricula.

School of Music, 8 p.m., Recital Hall. James Lyon, violin.

Saturday, March 16

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Marilyn Horne, mezzo-soprano and Benita Valente, soprano. For tickets, call (814) 863-0255.

Sunday, March 17

Exercise and Sport Science, 2:30 p.m., 132 White Bldg. Performance of "Through the Shadows," a blend of original works created for music and dance.

Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. Dymna Theatre "The Challenge." For tickets, call (814) 863-0255.

Monday, March 18

Commission for Women, 14 p.m., Nittany Lion Inn. Annual Spring Banquet. Enjoy Bravo on "The Job/Family Challenge: Not for Women Only."

Center for Women Students, 7 p.m. Ken Sherill on "Myths and Realities of Lesbian, Gay, Bisexual Power and Powerlessness in American Politics." Call (814) 863-2027 for location.

School of Music, 8 p.m., 122 Music Bldg. II. Penn State Pops Ensemble.

Tuesday, March 19

Professional Women brown-bag lunch, 11:50 a.m., 110 Henderson Bldg. Linda Dueron on "Family Living in the '90s. We're All in This Together."

Catholic faculty and staff fellowship meeting, noon, 212 Eisenhower Chapel. Tony Wagner on "Christ, Career and Slaying Centered."

Center for Adult Learner Services, noon, HUB Gallery Lounge. Diane Resides on "The Sandwich Generation: Continuous Caring."

Geographic Information Sciences Meeting, noon, 113 Land & Water Research Bldg. Chris Cappelli will present on ESRI's spatial data engine software.

Center for Women Students, 7 p.m., 102 Classroom Bldg. Pam Discussion: "Defending Our Lives."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Cats." For tickets, call (814) 863-0255. Through March 21.

Wednesday, March 20

Center for Women Students, noon, 120 Boucks Bldg. Mary T. Franks on "Issues of Woman with Disabilities. Part II."

Center for Adult Learner Services, 7 p.m., 413 Boucks Bldg. Diane Resides and Marcia Pomery on "Career Exploration Group." Workshop for prospective students considering a career change or further education.



Juilliard String Quartet

The Juilliard String Quartet will perform at 8 p.m. Friday, March 29, in Schwab Auditorium on the University Park Campus. For information about the performance, call Eisenhower Ticket Office at (814) 863-0255.

Thursday, March 21

Cross-Cultural Health Program, noon, 305 HUB. General Body Meeting.

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Concert Choir. "Distance Learning Today" teleconference, 1 p.m., 120 (Studio C), Mitchell Bldg. "Interactive Learning Environments—Sharing Specific Examples of Interactive Communication."

Center for Academic Computing, 2:15 p.m., Studio D, Mitchell Bldg. PBS teleconference on "From Reality to Virtuality: New Tools for Distributed Learning."

■ HUB "Distinctive Styles" Concert, 8 p.m., HUB Fishbow. "Alfredo Rolando Ortiz," South American harp player.

Friday, March 22

Office for Minority Faculty Development Workshop, 9 a.m., 110 Agricultural Sciences and Industries Bldg. Robert Kilonen on "Seeking Grant Funds Electronically." For reservations, call Mary Leone at (814) 863-1663.

School of Music, 2 p.m., 122 Music Bldg. II. Penn State Children's Opera.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Gato Barbieri, saxophonist. For tickets, call (814) 863-0255.

Saturday, March 23

School of Music, 2 p.m., 122 Music Bldg. Penn State Children's Opera.

Gallery Talk, 2 p.m., Christoffers Lobby, Palmer Museum. Beth Lombardi on "Baroque Art at the Palmer Museum."

School of Music, 4 p.m., Recital Hall. Penn State Chamber Orchestra.

School of Music, 8 p.m., Recital Hall. Penn State Pops Ensemble.

SEMINARS

Thursday, March 14

Computer Lab and Engineering, 4 p.m., 302 Ford Lab. Balaji Raghavachari,

speaker.

Health and Human Development, 4:15 p.m., 209 Henderson Bldg. Pattishall Lecture by Steven Zart on "Families at the Crossroads: Caring for Disabled Older People." Russell Marker Lecture in Mathematics, 4:30 p.m., 111 Warkik Lab. Elmer Zelmanov on "Algebras with Growth Restrictions."

■ Values in the Community Lecture, 7:30 p.m., 101 Kern Commons. Fernando Segovia on "Latino Conceptions of Community: Cultural and Theological Perspectives."

Friday, March 15

Physics, 2:30 p.m., S-5 Osmond Lab. Gilbert Walker on "Time-Resolved Infrared Studies of Excited-State Proton Transfer."

Accounting Research, 3:30 p.m., 333 Beam Bldg. Pervin Shroff on "The Relation Between Aggregate Earnings and Security Returns over Long Windows."

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Barbara L. Gray on "Collaborative Planning Processes to Resolve Environmental Disputes."

History, 4 p.m., 102 Weaver Bldg. Jeremy Black on "Could the British Have Won the American Revolution?"

Eberly College of Science, 4 p.m., 112 Kern Bldg. Phillip A. Griffiths will discuss the 1995 report "Reshaping the Graduate Education of Scientists and Engineers."

Monday, March 18

■ Comparative Literature Luncheon, 12:15 p.m., 101 Kern. Gerald Moser on "Birth and Growth of Written Literature in Africa Now Compared with Europe."

Center for Gravitational Physics and Geometry, 3:30 p.m., 109 Boucks Bldg. Petr Hajicek on "Time Evolution of Parametric Systems."

■ Jewish Studies Program, 3:30 p.m., Palmer Union Auditorium. Elisabeth Maxwell on "Crystal of Memory or Smoke of Remem-

brance?" Lecture on the Holocaust.

Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Bldg. Shiyi Chen on "Lattice Boltzmann Computational Fluid Dynamics."

■ East Asian Studies, 4 p.m., 102 Weaver Bldg. Robert Neville on "Confucian and Western Paradigms of Self-Deception."

Tuesday, March 19

Economics, 1 p.m., HUB Gallery. Robert Moffitt on "Recent Trends in the Dynamic Structure of Earnings and Earnings Mobility in the U.S."

■ Jewish Studies Program, 3:30 p.m., 102 Weaver Bldg. Elisabeth Maxwell on "Am I My Brother's Keeper?" Lecture on the Holocaust.

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Rajeev Sharma on "Geometric Motion Planning with Visual Constraints."

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Marcel Robertroid on "Prebiotic Fructooligosaccharides and Health."

Wednesday, March 20

Adult, Continuing & Distance Education, 11:45 p.m., 502 Keller. Melinda M. Stearns on "Client Development: Building a Support Center for Continuing Education."

Science, Technology and Society Program, noon, 118 Willard Bldg. Lance Bush on "NASA and Technology Transfer: A Case Study of NASA Langley."

Gerontology, 12:15 p.m., 101 HAHB East. Alfred Owens on "Age-Related Difficulties in Night Driving: Can Visual Deficits be an Advantage?"

■ Art History, 1:20 p.m., Palmer Union Auditorium. Mary Mathews Gedeo on "Monet's Self-Portraits: Records of Critical Moments."

Accounting Research, 3:30 p.m., 333 Beam Bldg. Carol A. Margard on "The Reliability of Employee Stock Option Fair Value Disclosures Under SFAS No. 123."

Nittany Mineralogical Society, 7:30 p.m., 301 Steidle Bldg. Richard Hauck on "A Priceless Hole in the Ground."

Thursday, March 21

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Beaver Lab. John Baerz on "Quantum Gravity and BF Theory in Four Dimensions."

Population Research Institute, noon, 406 Oswald Tower. Benjamin Campbell on "Adolescent Sexuality: Empirical Tests and Biocultural Models."

Geosciences, 3:30 p.m., 112 Walker. Sam Bowring on "Early Crustal Growth and Evolution."

Ecology, 3:45 p.m., 108 Warkik. David Rubenham on "Controlled Ecological Life Support Systems: Space Exploration Tomorrow—Clean Water and Fresh Food Today."

Institute for High Performance Computing Applications, 4:15 p.m., 215 Hammond Bldg. Ron Selva and Koushik Ghosh on "Porting Parallel Applications to Cray Architectures."

Friday, March 22

■ Jewish Studies Program, 3:30 p.m., Palmer Union Auditorium. Elisabeth Maxwell on "Let It Not Come Unto You, Al Ye That Pass By!"

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. John Krygiel on "Marginal Ideas

News in Brief

A flood of relief

Penn State fans attending the men's and women's basketball games at the Bryce Jordan Center on Feb. 22 and 23 contributed \$1,431 to the American Red Cross "Pennsylvania Flood Relief Campaign." The Centre Communities Chapter of the Red Cross, which received the donations, spent almost \$24,000 to provide food, clothing, shelter and repair or replacement of furnaces, pumps and electrical systems for flood victims. Throughout Pennsylvania, Red Cross assistance totaled nearly \$6 million.

HIV/AIDS: Network update

Designed for members of Penn State's "You Can Ask Me About AIDS" Network, this session will discuss new information and issues related to HIV/AIDS, as well as explore ways to improve the effectiveness of the network. Meets 12:30-2 p.m. Monday, March 18, in 16 Rite-nour Building. Cost: None. Participants are invited to attend a meeting of the HIV/STD Consortium which precedes the session from 11 a.m.-12:30 p.m. To register, contact Jan Hawbaker at (814) 865-3085 or JQH3@oas.psu.edu.

Paid volunteers needed

Overweight females are needed to participate in a study at the Laboratory for the Study of Human Ingestive Behavior in Henderson Building. The study involves eating meals in the laboratory Monday through Thursday of every other week during a nine-week period this summer. Each meal will take approximately 30 minutes to consume and will consist of a variety of commercially available foods. No experimental or test foods will be used. Participants should not expect to gain or lose weight during the study. Volunteers must be 18-45 years old, able to eat a wide variety of foods, non-smoking, non-dieting and not pregnant or lactating. In addition to the free meals, subjects will be paid \$300 if they complete the study. If interested, please call (814) 865-8482 and ask for the study coordinator.

The principal investigator on the project is B.J. Rolls.

Catholic faculty and staff fellowship meeting

On Tuesday March 19, Tony Wagner from the Office of Governmental Affairs will speak on "Christ, Career and Staying Centered." The Penn State Faculty and Staff Fellowship Group invites everyone to join the discussion beginning at noon in Room 212 of Eisenhower Chapel. You are welcome to bring your lunch.

Internet seminars

Would you like to know more about the Internet? Then attend Internet seminars offered by the University Libraries and Computer and Information Systems this spring semester.

For additional information, contact Katie Clark at (814) 865-5093 (kcc@psuinfo.psu.edu).

The following sessions are being offered:

■ Gopher

Gopher, a menu-based information system, provides access to thousands of information files distributed worldwide. No experience or registration required. 01125 March 19, 9-11 a.m., 141 Computer Building.

■ World Wide Web Hands-on: IBM

This seminar will introduce the Web and a popular Web client, Netscape. Prerequisites: Basic IBM/Windows skills. Register electronically through the VM/CMS system or through the World Wide Web at the URL address:

<http://dlpserv.ccs.psu.edu/web/training/schedule.html#Internet>.

01139 March 14, 9-11 a.m., 116 Wagner Building.

Noll Lab study

Healthy men and women, ages 55-80, can earn \$1,500 by participating in a study of protein metabolism and weight lifting at Noll Physiological Research Center. Volunteers must be available for a 14-week period in 1996 and should not be involved in regular exercise. All of their food will be provided during the study. For more information, call Betsy Fisher at (814) 865-4799.

Married couples needed for diary study

The Department of Psychology is looking for legally married couples of all ages and backgrounds from Centre County to participate in a study on daily experiences and marital relationships. Couples willing to volunteer their time will be asked to complete daily diaries on their marital relationship and activities. Couples will receive \$30 and Penn State merchandise for their participation.

For more information, please call Jean-Philippe Laurenceau, Department of Psychology, at (814) 863-1720 and leave a message.

Continuous care discussion

"The Sandwich Generation: Continuous Caring," a brown-bag panel discussion by students and staff, will provide an overview of campus and community resources and a look at Penn State's Gerontology Center.

The discussion will begin at noon Tuesday, March 19, in the HUB Gallery Lounge on the University Park Campus. Anyone interested in attending should contact the Center for Adult Learner Services at (814) 863-3887 or stop by 323 Boucke.

Career exploration

The Center for Adult Learner Services and Career Development and Placement Services on the University Park Campus is co-sponsoring a two-part workshop for prospective students considering a career change or further education. The workshop, titled "Career Exploration Group," will focus on: identify career interests and career options; career decision-making process; and the world of work.

The workshop is scheduled for 7-9 p.m. Wednesday, March 20, in 413 Boucke Building. Anyone interested in attending or needing more information, should call (814) 863-3887 or stop by 323 Boucke.

Wolszczan on astronomy

Alex Wolszczan, professor of astronomy, will lead a luncheon roundtable discussion hosted by the Penn State Chapter of the National Association of Science Writers, at noon Wednesday, March 27, in room 114 Kern Building.

He will talk about the role of astronomy in the popularization of science.

Dr. Wolszczan discovered the first planets ever found outside our solar system, and is a leading source of insight on new astronomical findings.

NASW luncheon programs are open to anyone interested in science communication. For more information, contact Scott Turner by e-mail at SXT11@PSU.EDU or by telephone at 865-9481.

Weight Watchers

Two weight watchers series are available at Penn State. Weight Watchers At WORK meets Wednesdays, March 27-May 29 from noon-1 p.m. in the Paul Robeson Cultural Center. Weight Watchers AFTER WORK meets Thursdays, March 28-May 21 from 5 to 6 p.m. in 105 Physical Plant Building. Cost for either series is \$115 (\$105 for lifetime members). The cost of this program is reimbursable to members of the HealthAmerica HMO. To register, contact Jan Hawbaker at (814) 865-3085 or JQH3@oas.psu.edu.

STS Program director sought

Applications and nominations are invited for the position of director of the Science, Technology and Society (STS) Program. An individual is sought who will provide leadership with strong administrative and interpersonal skills. The successful candidate should possess an earned doctorate, be tenured, have experience teaching and advising undergraduates, students, and have a strong interest in interdisciplinary issues. A commitment to providing a high-quality undergraduate program.

The STS Program is an interdisciplinary program offering courses to help students critically examine the impact of scientific investigation and technological development on society's values, priorities and institutions. In addition, the influence that human needs have upon scientific and technological activities is studied. Minors in both STS and Peace and Conflict Studies are offered by the program. The program enjoys the participation of faculty members, both at University Park and other campuses, from most colleges in the University. The STS Program is administratively located in the College of Engineering and the director reports directly to the dean of the college.

The position will be filled July 1, or as soon as a successful candidate is identified and available. Nominations and applications, including curriculum vitae, should be received by April 15. However, applications will be considered until the position is filled. Minority and women candidates are encouraged to apply. Inquiries should be directed to Edward H. Kleivans, chair, STS Director Search Advisory Committee, 231 Sackett Building, University Park, Pa. 16802.

Libraries seeking award nominations

Nominations are being sought for candidates for the 1996 University Libraries Award. The award is given in recognition of the achievements or performance of any person holding an academic or staff appointment in the University Libraries who meets one or more of the following criteria:

- professional contribution which has a significant influence on the operations of the Penn State Libraries;
- significant professional contribution which earns the respect of the University community for the Libraries;
- significant contribution to the profession which reflects achievement in librarianship at Penn State;
- or outstanding service to the Libraries as shown by continuing leadership and innovation.

Any member of the Penn State community may make a nomination; nomination forms are available at various locations throughout the University Libraries. All nomination forms are due on or before March 18 and should be sent to Sandy Stauffer, Office of the Dean, ES05 Pattee Library, University Park, Pa. 16802.

Calendar

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In Marginal Places: Landscape and the Debate over an Atomic Blast in Central Pennsylvania."

CONFERENCES

Thursday, March 14

Satellite Teleconference, 1 p.m., 129 Mitchell Bldg. "Distance Learning Today: Methods and Mediums," introduces a variety of delivery methods and mediums associated with learning at a distance. No pre-registration necessary.

Subacute/Transitional Care, The Penn State Scanton.

Friday, March 15

Risk Management and Liability, The Penn State Scanton.

Sunday, March 17

Pennsylvania Junior Science and Humanities Symposium, University Residence Halls. Through March 18.

Monday, March 18

Divorcing Parents. Call (814) 863-0471 for location.

Food Service Manager 2001, The Nittany Lion Inn. Through March 20.

Tuesday, March 19

"Fermentation Methods and Scale-up Strategies," 8:30 a.m., Frear Laboratory. For more information, call 1-800-PSU-TODAY.

NCA Chocolate Handling Workshop, The Nittany Lion Inn. Through March 22.

Wednesday, March 20

Dental Seminars, The Penn State Scanton. Pennsylvania Association of Developmental Education Conference, The Penn State Scanton. Through March 22.

Friday, March 22

Academic Assistance Programs Conference, The Penn State Scanton. Through March 23.

EXHIBITS

HUB

Art Alley Cases:

■ International Mixed Media, diverse art, cultural exhibits and crafts. Through April 7.

Art Alley Panels:

Work by Patrick Casher, landscapes painted in plain air in the woods surrounding his hometown. Through April 7.

Formal Gallery:

Work by David Van Dommelen, fiber artist. Through March 30.

Kern

Kern Cases:

Heidi Zimber, porcelain clay and stoneware with hand painted decorations. Through April 7.

■ Slavic Eggs, dozens of intricately designed Ukrainian Easter eggs, called pysanky. Through April 16.

Kern Panels:

Roberta Moore, photography, black and white portraits of the human form. Through April 7.

Palmer Museum

"Recent Gifts: The Jack Bershad Poster Collection," through June 2.

Pattee

East Corridor Gallery:

Mixed media works by Steve Thompson, photography and computer art. Through March 31.

Zoller Gallery:

Undergraduate Juried Exhibition, through March 24.

■ Reflects an international perspective

Graduate students show their work at exhibition March 15-16

From dragonfly wings to hybrid rocket motors, the posters scheduled for the Eleventh Annual Graduate Research Exhibition, March 15-16, explore the range of human endeavor in understanding more about ourselves, our world and our Universe.

Graduate students will display and explain many of the research projects under way in departments across campus. Research topics run the gamut from controlling insect pests to walking backward.

Student research will be displayed to the public in the Hetzel Union Building Ballroom and Fishbowl on the University Park Campus from 10 a.m. to 3 p.m. on both Friday and Saturday, March 15 and 16. The awards ceremony will take place at 3 p.m. Saturday. The exhibit provides graduate students with the opportunity to



Fun forum

Some of the participants at last year's Graduate Research Exhibition discuss their work with the curious at the annual event.

explain and defend their research to faculty, other students, administrators and the community.

More than 200 Penn State graduate students will compete for awards totaling \$10,000.

"The Graduate Research Exhibition showcases the wide variety of research opportunities available to Penn State graduate students," Rodney Erickson, dean of the Graduate School, said. "It fosters communication across disciplines and

introduces the wider community to the significance and impact of our research programs."

All 11,000 Penn State graduate students perform research as part of their degree requirement.

Penn State's Graduate Research Exhibition is co-sponsored by the Graduate Council and the Graduate School.

Student Affairs seeks nominations for two awards

Nominations for the Vice President's Award for Outstanding Service to Students and the Vice President's Award for Quality Improvement are being accepted.

The Vice President's Award for Outstanding Service to Students recognizes Student Affairs employees who demonstrate exemplary service to students. The selection committee will evaluate the nominees based on: dedication to excellence in providing services to students; professionalism in interactions with students; evidence of sensitivity to the diverse student populations served; and evidence of "going the extra mile" in

serving students. Nominations will be accepted from students, administrators, staff or faculty members until Tuesday, April 2.

The Vice President's Award for Quality Improvement recognizes individuals and teams for meritorious quality improvement initiatives. This award will go to a nominee(s) who did an exemplary job: examining an issue relating to the quality of the division's/unit's programs and/or services; interacting with stakeholders of the processes to identify outcomes; engaging in appropriate benchmarking and data gathering activities; identifying effective per-

formance measures; and implementing change, if appropriate. Nominations may be made by any Student Affairs staff member until Tuesday, April 2.

Nomination forms for both awards are available at many Student Affairs offices on the University Park Campus (including the HUB desk, Paul Robeson Cultural Center and in 101 Boucke Building), or by phone at (814) 865-0181. Recipients of these awards will be recognized at the Student Affairs awards reception on May 6.

Australia-New Zealand center puts out call for fellow

The Australia-New Zealand Studies Center will nominate one person for the Ian Axon (New Zealand) Fellowships in Public Policy. Nominations should be submitted by March 25.

The fellowships, established by the New Zealand government in 1995 to reinforce the links between New Zealand and the United States, give American professionals the opportunity to spend six to nine months studying, traveling and gaining practical experience in public policy in New Zealand.

Ian Axon Fellowships, open to U.S. citizens with at least five years of experience in their professions, focus on mid-career development. Candidates should submit proposals for study in New Zealand, in any field of public policy including health care, welfare reform, legal and judicial issues, criminal justice, crime prevention and enforcement, community development, youth and families, education and training, workplace and employment issues, policy relating to indigenous peoples, environmental policy, public sector reform,

monetary policy and economic management, information technology, science and technology policy, and program evaluation in the government sector.

Anyone interested, or anyone who wishes to nominate someone, should contact John Keller or Patricia Corbett at the Australia-New Zealand Studies Center, 427 Boucke Building, University Park, Pa. 16802, by March 25. (Phone: (814) 863-1603; fax: (814) 865-3336; e-mail: pac9@psu.edu or jnk13@psu.edu).

Appointments

Landscape architecture names head

Eliza Pennypacker, interim head of the Department of Landscape Architecture, has been named the new head of the department.

Professor Pennypacker, who holds a bachelor of arts in philosophy from St. John's College, Annapolis, Md., and Santa Fe, N.M., and a master of landscape architecture from the University of Virginia, Charlottesville, Va., has been a member of the Penn State faculty since 1982. She is a Fellow in the CIC Academic Leadership Program and a member of the Provost's Academic Leadership Forum Planning Committee and was the associate director of the Center for Studies in Landscape History. She has served as the interim head of the Department of Landscape Architecture since 1993. She also has served as the associate director of the Institute for the Arts and Humanistic Studies at Penn State and acting associate dean for research of the College of Arts and Architecture.



Eliza Pennypacker

Professor Pennypacker has served as a speaker for the American Society of Landscape Architects both at the Pennsylvania/Delaware chapter and national levels. She has also served as a speaker and a reviewer for the Council of Educators in Landscape Architecture. She is co-author of the interpretive traveling exhibition, "Abstracting the Landscape: The Artistry of Landscape Architect A.E. Bye," which has been shown and reviewed nationally. She also was a member of the Penn State design team that submitted the winning design for the national competition for the Korean War Veterans Memorial in Washington, D.C.

Among the honors she has received are the Howard B. Palmer Mentoring Award and the Penn State University Faculty Schreyer Medal for Arts and Humanities. Nationally, she has been recognized by her peers with a National Honor Award from the American Society of Landscape Architects for the exhibition "Abstracting the Landscape," and an Award of Distinction from the Council of Educators in Landscape Architecture recognizing her excellence in teaching and research.

Active in the community, she served on the State College Design Review Board from 1991 until 1995 and was the chair of a subcommittee charged with writing a design guide for downtown State College from 1991 and 1992.

Interim associate dean for Smeal College appointed

David P. Christy, associate professor of management science, has been appointed interim associate dean for research and director of doctoral and M.S. programs in The Smeal College of Business Administration. He will serve in that capacity while Kenneth M. Luscht is on sabbatical leave during the spring semester.

Director of development for College of Education comes on board

Anita Cooke Stallings has been named director of development in the College of Education. In this position, she will work to secure private support for the college.

Ms. Stallings comes to Penn State from North

Carolina State University. As executive director of the College of Education and Psychology's foundation and director of college development, she oversaw a successful \$7.2 million campaign and increased private giving by 160 percent in four years.

An alumna of Wake Forest University and a cum laude graduate of Meredith College in Raleigh, N.C., she received her bachelor of arts degree in mathematics with a minor in business administration.

EMS Minority Program coordinator comes on board

Josephine B. Herrera has joined the staff of the College of Earth and Mineral Sciences as coordinator of Minority Programs, succeeding John D. Lee, who has been appointed as the college's mathematics tutor.

She comes to University Park from the Penn State DuBois Campus where for the past two years she served as a lecturer in environmental sciences and taught courses in geosciences, geography and meteorology. Concurrently, she is pursuing her D.Ed. degree in earth science at Penn State. She holds a B.S. in geology from Columbia University and an M.Ed. in earth science from Penn State.

Ms. Herrera's interest and involvement in minority science programs is long-standing. At Penn State, she served as the first coordinator for the Business, Engineering Science and Technology (BEST) Summer Program for minority students, and as an instructor for an orientation course for engineers. She has been active in a number of committees to enhance the climate for minority students, including the WISE Forum and the liaison committee to the Commission for Women at DuBois Campus; and served as a volunteer counselor and tutor in the College of Earth and Mineral Sciences.

Before coming to Penn State, she taught physical and earth sciences at DeWitt Clinton High School in New York City, where she was selected as "Rookie Teacher of the Year." She also served as coordinator of a program to encourage disadvantaged students to stay in school, and teacher of an Outward Bound summer program to build leadership and survival skills for inner-city students.

Bucks County initiative welcomes first director

Louis A. Naglak of Doylestown, Pa., has been named director of Economic Adjustment Programs in Penn State's Research and Technology Transfer Organization (RTTO).

In this new position, he will coordinate the RTTO/Bucks County effort to deal with the loss of the county's largest employer, the Naval Air Warfare Center Aircraft Division in Warminster, Pa. The development effort is supported by a \$2 million grant from the Department of Commerce.

Mr. Naglak, a retired U.S. Navy senior executive, previously served as director of the Navy's Research Detachment at Warminster. As director, he expanded laboratory facilities at the center and initiated an academic/industrial/Navy coalition to encourage technology transfer.

Based in Warminster since 1960, Mr. Naglak also

served as associate director for technology, director for planning and resources, and director for software and computer development. A specialist in signal processing, he is an architect of the Navy's digital acoustic signal processing systems. He holds a Department of Defense designation as a pioneer of high-speed computer chip design and was one of the creators of the Navy's computer technology graduate engineering training program.

In 1986, he received a Legislative Fellowship to the U.S. Congress and served as staff assistant to Rep. Stan Lundine of New York for the Technology Transfer Act of 1987. He was also a consultant to the Senate Subcommittee for Science, Technology and Space during the Challenger accident and during the 1987 NSF and NASA budget hearings.

Mr. Naglak has been honored with the U.S. Army Special Service Award for Missile Flight Safety receiver design, the U.S. Navy's Cpt. Ralph S. Barnaby Award for Excellence in Technical and Administrative Management and the U.S. Navy Meritorious Medal for Distinguished Civilian Service.

A graduate of the University of Scranton with a bachelor's degree in electronics/physics, he also holds a master's degree in engineering from the University of Pennsylvania. He is a member of the Institute of Electrical and Electronic Engineers, the Institute of Navigation and the Armed Forces Communications and Electronics Association.

Affirmative action specialist takes role as director of new center

Sandra Marie Vector, affirmative action specialist in the Office of Affirmative Action, has been appointed coordinator for the University's new Center for Diversity Support and Education.

The planning and administration of diversity-related activities and programs for faculty, staff and students at all campuses of Penn State are consolidated at the center.

Since 1993, Ms. Vector has conducted training workshops on sexual harassment, interpersonal skill development, cultural diversity, race relations, gender equity and employee recruitment for academic and administrative units.

She also has been a treatment specialist for chemically dependent individuals and their families at the Greater Erie Community Action Committee in Erie, and an adjunct instructor at Mercyhurst College, also in Erie.

Ms. Vector has a bachelor of science degree in mental health counseling from Gannon University and a master of arts degree in counseling college personnel administration from Edinboro University of Pennsylvania.



Louis A. Naglak



Josephine B. Herrera



Sandra Marie Vector

Spring is open-house time

■ Eberly College plans March 16 event

The Eberly College of Science will hold its annual open house for prospective students and their parents from 10 a.m. to 4 p.m. Saturday, March 16, in the Paul Robeson Cultural Center on the University Park Campus.

Approximately 3,600 high school seniors offered admission to the Eberly College of Science for 1996 summer and fall semesters have been invited to tour University Park, visit laboratories and speak with advisers, professors and current science students.

Representatives from each of the college's departments and programs, financial aid officers, and staff members from Housing and Food Services, and other Penn State offices will also be on hand to answer questions.

In addition, Norman Freed, associate dean, will be available to answer questions about the Commonwealth Campuses, undergraduate academic programs and scholarships, research opportunities and the Eberly College of Science Cooperative Education Program.

■ Penn College to open doors on March 24



An avionics technology student guides a child through a computer flight simulation at Penn College's Aviation Center during last year's open house.

New technologies -- and old favorites -- will take center stage when Pennsylvania College of Technology in Williamsport hosts its annual open house from noon to 4:30 p.m. Sunday, March 24. The event is open to the public.

The annual open house regularly attracts nearly 15,000 visitors to Penn College's main campus in Williamsport, its Aviation Center at the Williamsport-Lycoming County Airport in Montoursville and the Earth Science Center near Allenwood.

"Open House '96" showcases numerous new technologies, offering visitors an opportunity to travel around the world via the Internet, enjoy robotic and computer-automation demonstrations and draw their own 3-D objects using AutoCAD R13 software. Visitors also will be exposed to photography's new generation with illustrations of the digital editing process.

In addition to learning more about Penn College and watching live demonstrations, visitors are invited to compete in contests and games. Throughout the day, special workshops and seminars will spotlight the wide variety of resources at Penn College. At the Aviation Center, a paper airplane contest will be held and prizes awarded for the longest flight. Other hands-on activities will be offered in areas such as computer flight simulation, radar theory and instrument landing systems.

Shuttle bus services will be offered for travel from the main campus to the Aviation Center or the Earth Science Center. For more information on Penn College's Open House '96, call (717) 326-3761, or the college admissions department at -800-367-9222.

Faculty/Staff Alerts

GIS Center open in Pattee

The Geographic Information Systems (GIS) Center is open in the Maps Room, C202 Pattee Library.

The GIS Center houses a combination of computer hardware, software and data that allows users to organize, analyze and view spatial or geographic data stored in computer formats.

From the GIS Center, Penn State can launch a series of projects and products. Interactive maps of Pennsylvania, automatic census maps, scanned historic Pennsylvania city views and multimedia presentations are all possible.

Users with an access account may log on to the system using their passwords and user ids. Those without an access account may obtain a guest log-in at the Maps Desk (C202, Pattee Library).

Subjects sought for Hershey study

Healthy women between the ages of 18 and 40 without diabetes or other serious health problems who experience six or fewer menstrual periods per year may be eligible to participate in a study at The Hershey Medical Center, which offers a stipend for participants.

The polycystic ovary syndrome (also known as the Stein-Leventhal Syndrome) research study will involve free diagnostic testing and medical evaluation for participants and will be conducted under the direction of Dr. Andrea Dunaif of the Department of Medicine.

For more information, contact Joann Sieber, nurse coordinator, Clinical Research Center, The Hershey Medical Center, at (717) 531-5154 or 1-800-585-9585.

Seeking nominations

The Penn State Educational Office Professionals seek nominations for its Outstanding Office Professional Award. The award recognizes office employees who provide exceptional service to Penn State. All University office employees are eligible, except officers and board members of PSEOP. Selection criteria include professionalism, industriousness, job competency, leadership skills, resourcefulness, continuous quality improvement, teamwork, problem-solving skills, reliability, quality of work, positive attitude, professional development and volunteer service on University committees and University supported channels.

Contact Nancy Clark, chair of the Outstanding Office Professional Award Committee, at (814) 863-0325 or e-mail NLC38@psu.edu for a nomination form or more information. Nominations are due by March 22.

University Libraries' March seminars

The University Libraries is offering the following series of seminars during March to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM.

■ Penn State Libraries Catalog in LIAS

An overview of the Penn State Libraries catalog and hands-on practice in applying LIAS searching techniques.

March 21, 3-5 p.m., Tower Room 402, Central Pattee Library.

■ Accessing LIAS From Your Home or Office via a Modem

March 28, 3-5 p.m., Tower Room 401, Central Pattee Library.

■ Beilstein CrossFire

Techniques for searching Beilstein CrossFire, the electronic version of the Beilstein Handbook of Organic Chemistry.

March 15, 11 a.m.-noon, Reference Lecture Room, East Pattee Library.

■ Census Data

Teaches techniques for accessing a variety of sources of census data.

March 28, 3-5 p.m., Room 6, Central Pattee Library.

■ Chemical Abstracts

Learn techniques for searching C.A.Search, the online database equivalent of Chemical Abstracts.

March 18, 8:30-10 a.m., Reference Lecture Room, East Pattee Library.

■ Data Management: Library Master

Provides basic instruction in using Library Master software for IBM PCs and compatibles to create bibliographic databases.

March 19, 1-3 p.m., Tower Room 401, Central Pattee Library.

■ Identifying Existing Software

For individuals interested in using instructional software.

March 28, 10 a.m.-noon, Tower Room 402, Central Pattee Library.

■ International Sources on the Internet

March 18, 6-8 p.m., Tower Room 402, Central Pattee Library.

■ Literature Resources on the Internet

March 21, 10 a.m.-noon, Tower Room 402, Central Pattee Library.

■ Music

Features hands-on practice in accessing and searching electronic resources in music.

March 15, 1-3 p.m., Tower Room 402, Central Pattee Library.

Some sessions are offered more than once. To register or learn more about the seminars, send e-mail to signup@lias.psu.edu. If you have any additional questions, contact Doris Herr at (814) 863-0325. Information on the seminars can also be found by typing HELP WORKSHOP when using LIAS.

Penn Staters

Michael Foster, co-director of the Center for AI Applications in Water Quality, ERRI, and research associate in entomology, has been named co-editor of the Elsevier scientific journal, *Computers and Electronics in Agriculture*, for 1996-1998. His responsibilities will cover all North American submissions to the journal, which covers international advances in the application of computers and electronic instrumentation and control systems to agriculture and related industries.

Dave Griffiths, assistant professor of journalism, has been selected as a Fellow of the American Society of Newspaper Editors (ASNE), Institute for Journalism Excellence. He will spend six weeks this summer on the news and copy desks of the *Tulsa* (Okla.) *World*.

Clifford Jernigan, assistant professor of telecommunications, presented the keynote address at the 30th anniversary of Project Double Discovery, a program dedicated to educating inner city black and Hispanic youth.

Dee McConigle, assistant professor of nursing at the Penn State New Kensington Campus, is one of 14 nurses chosen to be a beta tester for the National Library of Medicine's "Internet Grateful Med," a new program for assisted searching in MEDLINE.

Jorge Pullin, assistant professor of physics and a researcher in the Center for Gravitational Physics and Geometry, presented a series of plenary talks during a visit to Poona, India. He was an invited plenary speaker at the International Conference on Relativity and Gravitation, which took place at the Interuniversity Center for Astronomy and Astrophysics. He spoke on "Canonical Quantum Gravity: Towards a Rigorous Theory."

Also at the Interuniversity Center for Astronomy and Astrophysics, Dr. Pullin lectured on "Colliding Black Holes with Linearized Theory" during the Workshop on Cosmic Censorship and Gravitational Collapse.

Calyampudi Radhakrishna Rao, professor of statistics, holder of the Eberly Family Chair in Statistics and director of the Center for Multivariate Analysis, has been selected to join the distinguished group of Honorary Fellows at the Institute of Combinatorics

and its Applications. The Institute has 654 members, only eight of whom are Honorary Fellows.

K. Warner Schaie, Evan Pugh Professor of human development and psychology and director of the Gerontology Center, has been appointed a senior consultant to the governing board of the German Center for Aging Research at the University of Heidelberg.

Robert A. Schlegel, professor and head of the Department of Biochemistry and Molecular Biology, presented an invited talk and seminars while visiting Australia. In New South Wales, Dr. Schlegel presented a talk titled "A Novel Subfamily of P-type ATPases with Aminophospholipid Translocating Activity," which he coauthored with **Margaret Halleck**, senior research associate at Penn State, at an international meeting titled "Comparative Aspects of Translocating ATPases."

In Melbourne, he gave seminars titled "Mechanisms for Recognition of Apoptotic Lymphocytes by Macrophages" at Latrobe University and the Walter and Eliza Hall Institute for Medical Research.

S. Shyam Sundar, assistant professor of media studies, won a top three faculty paper award in the Communications and Technology Division of the International Communications Association (ICA). He will present his paper, "Source Effects in Users' Perceptions of Online News," at the 1996 ICA Conference.

Richard E. Tressler, professor and head of the Department of Materials Science and Engineering, has been elected as an academician of the Academy of Ceramics, an international organization based in Faenza, Italy, that provides the focus for scientific interaction and cultural exchange among the national ceramic societies and the international ceramics community.

Paul S. Weiss, assistant professor of chemistry, presented a plenary lecture, "Surfaces: Characterization and Dynamics," and an invited talk at the Weizmann Institute of Science in Rehovot, Israel. He also presented invited talks in Jerusalem at the Hebrew University and in Tel Aviv at the University of Tel Aviv.

FAST FACTS ABOUT WORTHINGTON SCRANTON CAMPUS

Founded: 1951 Scranton Center;
1968 Worthington Scranton Campus

Service area: Northeast region

CEO: James D. Gallagher

Employees: 93 full- and part-time employees

Enrollment: 1,327

Key programs: Offers the first two years of study in nearly all of the 180 baccalaureate degree programs offered by Penn State. Also offers associate degrees in the following: architectural engineering technology, business administration (management information systems option), letters, arts and sciences, nursing and occupational therapy.



BY DOUG STANFIELD technology editor

From our random access files...

When the snow drifts are being melted by a cold rain and fog sits on the resulting mess, it's a good time to look for hope and think spring.

Typing the word "gardening" into our favorite search engine returned, among other things, a collection of botany related URLs. On the first try, we got <http://www.helsinki.fi/kmus/botany.html>. This is a collection of more than 1,500 botanical links housed on—ironically enough, considering the kind of winter weather they get—a server at the University of Helsinki. The site is maintained by Raine Lampinen (Raine.Lampinen@helsinki.fi, Raine Lampinen's home page), a botanist in the Botanical Museum, Finnish Museum of Natural History, and is updated about once a week. This is, of course, but one of thousands of botanical and horticultural sites on the Web to enjoy.

Peter Weiss, a systems engineer in Penn State's Office of Administrative Systems, tipped us off to another technology news source, but this one's not on the Web.

Edupage, a summary of news items on information technology from various sources, is provided three times each week as a service by Educum, a Washington, D.C.-based consortium of leading colleges and universities seeking to transform education through the use of information technology. Here's a recent sample:

HIGHER ED GROUPS EYE ELECTRONIC
COPYRIGHT BILL

Representatives from higher education associations testified last week before a House subcommittee, urging lawmakers not to pass new electronic copyright rules before their impact on colleges and universities can be assessed. At issue is a revised definition of "fair use" of copyrighted digital material that threatens to eliminate or severely restrict online interlibrary loans, and would also prevent professors from using such materials as part of their courses. (*Chronicle of Higher Education* 16 Feb 96 A26)

Edupage is written by John Gehl (gehl@educum.edu) and Suzanne Douglas (douglas@educum.edu). To subscribe to Edupage, send mail to listsproc@educum.unc.edu, and in the body of the message type: "subscribe edu-page Your Name."

NOTE: Pete re-posts the full EDUPAGE on the Emc2 BBS FC3INFO. Thus, Emc2 users need not subscribe.

A new Web site sent us by **Jerry Willey** in University Development is that office's home page at URL <http://www.development.psu.edu>. Jerry welcomes visitors.

Please feel free to send along your nominations via e-mail (dws@psu.edu) for favorite sites on the Web as well as tips on where we can find the most innovative and useful uses of online technologies. We'll check them out and share as space allows.

President heading to northeastern part of state

President Graham B. Spanier's statewide tour is still on track with a planned stop at the Penn State Worthington Scranton Campus on Wednesday, March 14. The following day, Dr. Spanier will meet with officials, community leaders, students, alumni, faculty and staff at the Wilkes-Barre Campus.

Since September of last year, the president has been criss-crossing the state, visiting Penn State locations in an effort to familiarize himself with the communities and to seek input from those communities on their vision for the University and how Penn State can better serve them.

The remaining schedule for his visits includes:

- March 20—Worthington Scranton
- March 21—Wilkes-Barre
- March 27—City of Pittsburgh
- April 10—York
- April 18—Abington-Ogontz

Why the currently touted flat tax falls short of being a "true" flat tax

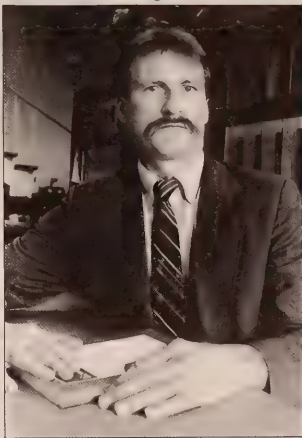
By GARY W. CRAMER
writer/editor

The idea of replacing the income tax with a flat tax has had its proponents and detractors for at least 15 years, but a researcher said that the flat tax concept making news now falls short of the real thing.

"A 'true' flat tax would eliminate all exclusions, deductions, exemptions and credits," Charles R. Enis, associate professor of accounting in The Smeal College of Business Administration, said. "It would achieve the maximum simplicity and impose the lowest possible tax rate on individuals while raising roughly the same revenues as the current income tax system."

In the early 1980s, when a proposed 10 percent flat tax was a big political issue, a study by Mr. Enis, who published papers on flat taxes as far back as 1984, and colleague Darryl L. Craig, now at the University of Wisconsin-Milwaukee, showed that a "true" flat tax would transfer substantial taxes from the rich to the poor. Mr. Enis said this result makes a "true" flat tax the benchmark against which alternative tax reform proposals should be compared.

Hypothesizing a flat tax of 12.72 percent, which would have raised the same amount of revenue as the income tax at the time of the study, Mr. Enis and Mr. Craig found that a substantial proportion of individual tax returns would experience a tax increase. This "true" flat tax would likely hurt low-income families, provide tax relief for high-income families and divide middle-income families equally between gainers and losers. The major transfer of the tax burden would have been from the top 10 percent of income earners to the lower 70 percent of income earners.



Charles R. Enis, associate professor of accounting, has for years studied flat tax proposals just like the ones being pushed recently by presidential hopefuls, like Steve Forbes.

Photo: Greg Ericson

"Under a 'true' flat tax of this sort, more families in the sort group of income earners would profit from a lower tax rate than would suffer from the loss of loopholes," Mr. Enis said.

In a later study, Mr. Enis and Mr. Craig showed that adding a degressive feature — such as exempting a specified initial level of income from taxation — supplies a flat tax with some of the progressiveness seen in the income tax system. They also found that a degressive flat tax would shift tax burden from lower-income to upper-income and especially middle-income families. Recent flat tax proposals are more similar to a degressive flat tax than to a "true" flat tax.

The researchers' flat tax models eliminated tax-free income, deductions and credits and replaced multiple rates with a single rate.

Unlike the systems simulated by the researchers, the flat tax being championed by presidential hopeful Steve Forbes and others would apply a 17 percent rate to all compensation and pension contributions. It would not tax other incomes sources, such as interest, dividends and capital gains of individuals, and would allow a large personal exemption but no deductions.

The revenue-neutral tax rate in the degressive flat tax simulated by Mr. Enis and Mr. Craig was 21.6 percent, which suggests that the rate proposed by Mr. Forbes is likely to result in a large revenue shortfall.

Furthermore, Mr. Enis points out that, unlike what has been suggested by Mr. Forbes, a flat tax does not require the elimination of the entire inter-

nal revenue code. Many provisions of the code were enacted to prevent abuse of the manner in which income is measured, timed, reported and classified regardless of the rate to be applied. Elimination of such safeguards will invite unbridled tax avoidance, Mr. Enis said.

Meanwhile, although individuals would not have to include interest and dividends in taxable income under recent flat tax proposals, such forms of income will not be completely tax free because businesses that distribute them will receive no deductions for the payments.

"Disallowing these deductions and exempting related income from taxation will have the effect of taxing income at its source and eliminating double taxation on distributed corporate profit," Mr. Enis said.

In addition, as described by Mr. Enis, a "true" flat tax would eliminate every loophole for taxpayers, including the cherished personal exemption. The tax liability would then be computed by applying a low unitary tax rate to the complete income base for all individuals.

"Although many features of a 'true' flat tax would streamline matters greatly for both taxpayers and the government, the elimination of most forms of tax shelters could discourage home ownership, gift giving and retirement planning," Mr. Enis said. "Still, it would probably achieve a lower rate than 17 percent, which could result in investors having greater disposable income available for these activities."

"It would also give individuals a clearer knowledge of their current and future disposable incomes for financial planning purposes."

Research

Roundup

Ads not seen as exclusive

Real estate ad campaigns that do not include black models do not necessarily send a racially exclusive message to prospective home buyers or renters, a trio of researchers found.

They also found that papers in cities with higher percentages of blacks have tended to increase the representation of ethnic minorities in real estate ads since 1970.

"Recent court decisions have ruled that using all-white models in real estate ads sends a discriminatory message to other races, but our results suggest this may paint too simplistic a picture of the actual effects," Jerome D. Williams, associate professor of marketing in The Smeal College of Business Administration, said.

The findings could be important to courts struggling to determine what types of proof are appropriate and sufficient to establish a violation of the Fair Housing Act where advertising is concerned.

Dr. Williams worked with William J. Qualls, associate professor of marketing at the Massachusetts Institute of Technology, and Sonya A. Grier, a Ph.D. candidate in marketing at Northwestern University.

Specialists fare better than generalists

Making yourself indispensable on the job may come down to developing a specific set of skills, a study suggests. Specialists have significantly more education, hold higher positions and are perceived by coworkers to be more trustworthy and better leaders than generalists, according to a study by Eric W. Stein, assistant professor of management science and management information systems at Penn State Great Valley Campus.

Analyzing data he gathered at two Greater Philadelphia organizations, Dr. Stein found specialists had significantly higher job levels and numbers of people reporting to them than generalists.

"Based on these results, it may be argued that expertise leads to management recognition and rewards," Dr. Stein said. He said more studies examining a larger cross section of organizations are needed.

"One surprise result was that experience was not a major factor in discriminating between experts and nonexperts," he said.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Football coaches clinic

Penn State will stage its annual football coaches clinic on March 29-30. In addition to hearing from head Coach **Joe Paterno**, attending coaches will receive instruction from members of the Nittany Lions' staff and have the opportunity to observe practice and demonstration sessions. There is a \$25 fee for the annual clinic to cover material, Friday dinner and a Friday evening social. For information call or write: Penn State Sports Camps Office, Keller Building, University Park, PA 16802-1304, (814) 865-0561.

Volleyball Hall of Fame

Penn State's 1994 NCAA Champion men's volleyball team recently was inducted into the Pennsylvania Volleyball Coaches Association Hall of Fame. The Nittany Lions were the first Eastern team ever to win the NCAA title.

New assistant in track

Two-time NCAA champion **Wendy Truvillion** has joined the women's track coaching staff as an assistant, replacing Olympic hopeful **Carmen Mann** who is training for the 1996 Games.

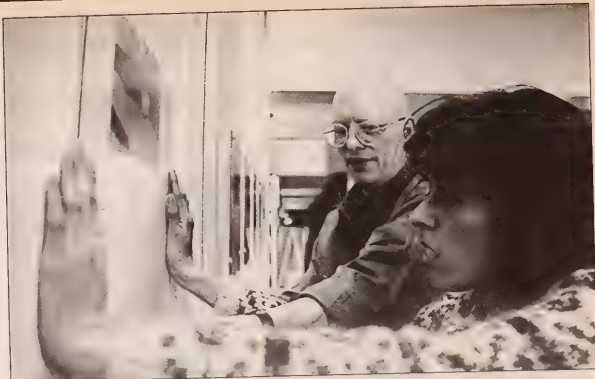
A five-time All-America and a 1988 Olympic Trials qualifier, Ms. Truvillion helped Louisiana State win indoor and outdoor NCAA titles.

In August, Ms. Truvillion will be an assistant coach of the World Junior team with Penn State volunteer coach **Jeri Daniels-Elder**.

A 1987 LSU graduate, Ms. Truvillion coached at Georgia Tech before coming to Penn State. She has been a sprint and conical football coach for players in the National Football League since 1991.

Golf tournament

Penn State will host the Big Ten men's golf championships on the Blue Course the weekend of May 10-12. This is the first time the Nittany Lions have staged the conference links.



Just right

Cristina Maldonado, a senior majoring in journalism, gets assistance from Jock Lauterer, assistant professor of photojournalism, in hanging her photo essay on Latin American women, "Our Beauty Lies in Our Diversity." The photo essay, a project Ms. Maldonado completed for Lauterer's class last semester, is on exhibit in the HUB on the University Park Campus.

Photo: Kristie Gulnder

Promotions

Staff

Diane E. Reese, staff assistant IV in Intercollegiate Athletics.

Debra A. Rubarsky, staff assistant V at Penn State Altoona.

Sandra J. Schantz, supervisor, Data Input, at The Hershey Medical Center.

Stephen D. Shireman, systems coordinator at The Hershey Medical Center.

Elizabeth A. Shuey, staff assistant VI at The Hershey Medical Center.

Melissa A. Strouse, staff assistant V in College of The Liberal Arts.

Suzanne G. Swartz, animal caretaker at The Hershey Medical Center.

Michael L. Vanatta, senior engineering aide in Applied Research Lab.

Bonnie L. Weaver, nursing manager at The Hershey Medical Center.

Edward L. Weaver, technical/administrative specialist, in College of Agricultural Sciences.

Heather M. Weikel, staff assistant V in The Eberly College of Science.

Peter C. Zimmerman, audience services manager in University Arts Services.

Technical Service

Brenda C. Bane, operator, Copy Center, Penn State Erie, The Behrend College.

Todd M. Creter, maintenance mechanic at The Hershey Medical Center.

Dwight M. Droll, maintenance worker, Utility, in Office of Physical Plant.

Steven B. Evans, maintenance mechanic at The Hershey Medical Center.

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INTERCOM

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PENN STATE



INTERCOM

March 21, 1996

Volume 25, Number 26



Good cause

Kristi Jensen, left, Dorian Readnour, Steve Carrel and Kate Brazel are on a mission to save the elms on the University Park Campus. They and fellow Senior Class Gift Committee members Cori Zingarelli, Bob Cole, Heidi Kottenslein, Ann McSorley and Sara Woods are selling a photo poster to help raise money for the elm tree endowment started by the Class of 1996

Photo: Greg Grieco

Senior class working hard to save the stately elm trees

By LISA M. ROSELLINI
Public Information

Senior Kate Brazel, who will graduate in May, wants to be remembered as a tree hugger.

You know the type — environmentally correct, Mother Earth-lovin' college student who spent the last semester of her college years pining over

some of Penn State's most majestic landmarks — the elms on the University Park Campus.

Steven Carrel, a finance major and another senior who says he never thought of himself as too environmentally aware, is now devoted to saving one of the last great American elm stands in the country. He admits the trees that line

both the Allen and Pugh street malls are "all he thinks about anymore."

"I always thought this campus was beautiful, but I really took it for granted," he said. "I never took the time to look down the mall and really look at the elms. Now I stand at the end of the mall and I'm sad because it doesn't stretch to

See "Elms" on page 6

Minority enrollments, new student quality rise in graduate programs

By BARBARA A. HALE
Public Information

The academic quality of all students who began graduate studies at Penn State last year is up, as are minority enrollments.

Speaking to the Educational Policy Committee of Penn State's Board of Trustees on Friday, March 15, Rodney A. Erickson, dean of the Graduate School, said that University-wide, the average combined verbal, quantitative and analytical score on the Graduate Record Examinations was 1,789 for first-time students who began graduate programs last fall, the highest on record.

"One out of every 74 doctorates awarded in the U.S. in 1993-94 was earned at Penn State."

Rodney A. Erickson
dean of the Graduate School

"In addition, the number of Penn State graduate students receiving National Science Foundation fellowships — a very prestigious award — has been notably increasing in recent years," he said.

"One out of every 74 doctorates awarded in the U.S. in 1993-94 was earned at Penn State." In that year, Penn State awarded 2,300 graduate degrees, of which 528 were doctorates. The University ranked 13th nationally and sixth among its peers in the Committee on Institutional Cooperation in the number of doctorates conferred.

Last year, Penn State awarded 2,334 graduate degrees, of which 585 were doctorates. "Given the substantial jump that occurred in doctorates awarded in 1994-95, Penn State may have moved up even further on this national listing," Dr. Erickson said.

In contrast to the significant increases in degrees awarded, total graduate enrollment at Penn State has grown slowly. Averaging only about a one percent gain per year over the last five

See "Graduate" on page 6

Inside



Research

Professor emeritus has spent a lifetime developing the perfect grasses for golf course greens. For story, please see Page 19.



Diversity

The Residential Adult Therapy Program helps people overcome the effects of strokes and other disabilities. For story, please see Page 2.

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DIVERSITY

■ Helping people to help themselves

Live-in program aids recovery from disabilities

By SCOTT TURNER
Public Information

His eyes are closed tightly, while his left hand rests on a yellow legal pad. It seems a natural posture for Aaron, a 49-year-old Philadelphia litigation attorney whose clients include a number of Fortune 500 firms.

Aaron is formulating an answer to a question just asked by a woman sitting directly across a small table from him.

There is silence in the small, windowless room. Aaron lifts up his hand to write. Stops. The pen is dropped and his left hand moves up to his thick brown hair, then down to his forehead.

Aaron isn't trying to unravel a legal knot. And it's not a client with him in the City of Brotherly Love. Aaron and Carolyn Rubenstein, one of his graduate student clinicians, sit face-to-face in a corner of Moore Building at University Park.

Two years ago Aaron was in a car accident, and two weeks later suffered a stroke. Now he sits in a session repeated four times a week in the Residential Adult Therapy Program in the College of Health and Human Development. Aaron's vocal cords are fine, but the stroke damaged the part of his brain that formulates speech. (It also left him with a bit of a limp, and diminished use of his right arm.)

Rubenstein's questions are meant to allow Aaron to think through everyday scenarios and to respond in complete sentences. The exercise helps him practice the strategies he has learned at Penn State to help him overcome the effects of the stroke.

The task can frustrate Aaron, because he knows the answers to Rubenstein's questions. But he will start and stop several times, write on a pad to formulate his ideas and close his eyes tightly for up to 30 seconds in an effort to have the words come out the way he'd like.

Aaron looked directly at her, tapped his fingers with each syllable and took the time to re-read her question, which he had written on the pad. These are all strategies he has learned.

Aaron is one of six participants in this semester's Residential Adult Therapy Program, run by the Department of Communication Disorders. For more than 20 years the program has hosted an average of a half dozen clients each semester. At 49, Aaron is the youngest this semester.

"Stroke among people under age 65 is much more common than people might think," Ann Marie Yakymac, the faculty member who serves as the program's clinical supervisor, said. "When I worked in a rehabilitation center, I worked with many people who had strokes in their 30s, 20s,



Ann Marie Yakymac, left, is clinical supervisor for the Residential Adult Therapy Program, which is helping Aaron, above, to overcome effects of a stroke.

The program's main goal is to take over the rehabilitation process where acute care leaves off. Aaron, who suffered a stroke after a car accident two years ago, came into the program after being discharged from a rehabilitation center. The stroke damaged the part of his brain that formulates speech.

even their late teens."

In addition to the service it provides to its clients, the University program offers a training setting for its 70 graduate students, as well as a chance for researchers in the Communication Disorders Department to evaluate treatments or to conduct their own research.

The program's primary goal is to pick up where acute care leaves off. Aaron, for example, spent almost three months as an in-patient (first in the hospital, then in a rehab center) after his stroke. After being discharged he participated in an outpatient rehabilitation program, then, through his stroke support group, he found out about Penn State's program.

At the heart of the program is a social compo-

nent: Five of this semester's participants, including Aaron, live during the week in nearby McKee Hall. Aaron participates weekly in a group meeting and in evening socials, both of which help participants transfer the skills they learn in individual sessions to social situations.

In McKee, Aaron shares a room with another participant, living among the dorm's graduate students. Aaron works in the dorm cafeteria and takes weekly outings (for example, to the Palmer Museum of Art and the Creamery) with other participants.

The social aspect of recovery is important here — to help people relearn to visit a bank to cash a check, or to walk to the bus station," Gordon Blood, department head, said.

This is Aaron's fourth semester at Penn State. When he first arrived, he had trouble responding to what was said to him. Now, he's the unofficial leader during group sessions, at times directing his cohorts, challenging them to use more than one-word responses to the open-ended questions of graduate student clinicians. He also helps fellow participants apply the physical tools they've learned to use, such as a picture book of everyday objects and a chart that shows where specific sounds are made in the mouth.

The goal of Aaron's treatment is that he will use the strategies he has learned here when he goes back to Philadelphia — at home, on the job and in running everyday errands.

He is already well down that road. Every Thursday afternoon, he walks from McKee Hall to the bus station, where he heads home to his wife and 7-year-old son. Although he's not currently a practicing trial attorney, he works at his law firm and exercises in a local gym every Friday.

"This has been very good for me," he said. The words come out one at a time, sometimes separated by seconds, but the sentence is complete.

He closes his eyes, squints and continues slowly, "When I started out, the only word I knew was 'hello.' Sometimes after, words began to come out automatically." He repeats the syllables of this last word several times until he's satisfied the entire word is said correctly.

As he walks slowly toward his dorm across the street from Rec Hall, on a bright, but chilly afternoon, Aaron says he follows the teams at his alma mater, Rutgers University, but otherwise isn't much of a sports fan.

Indeed, many Penn State legends have overcome adversity on Rec Hall's surfaces, but you won't find all of the University's heroes there. One Penn State champion, wearing a Rutgers ball cap, walks in measured steps toward his dorm.

DIVERSITY

Unity Days to end with variety of special events

The first Penn State Unity Days, "Building Coalitions Through Education, Awareness, and Cultural Sensitivity," which began last September, are ending with a series of workshops and presentations Monday, March 25, through Thursday, March 28.

"The Penn State Unity Days gives the Penn State community an opportunity to share and discuss diversity issues and ways in which we can bridge the gaps in building a multicultural environment," Elissa J. Nixon, chairperson of the Unity Days Committee and counselor at the Multicultural Resource Center, said.

One of the highlights of the week's events is a presentation by **Marian Wright Edelman**, founder and president of the Children's Defense Fund in Washington, D.C. She will speak on "Building Coalitions in a Multicultural Society," at 8 p.m., Wednesday, March 27, in Eisenhower Auditorium.

Other events in the series include:

Monday, March 25

■ "Diversity Issues in the Classroom," **Sabrina Chapman**, director of the Center for Women's Studies, 7 p.m., 323 HUB.

■ "Everyday Experiences with Prejudice," **Janet Swin**, associate professor of psychology, 7 p.m., 323 HUB.

■ "The Myth of Race and the Value of Diversity," **Dean R. Snow**, Department of Anthropology, 7 p.m., 318 HUB.

Tuesday, March 26

■ "Imagine-a-World," PSU Design Club, 7 p.m., HUB Ballroom.

■ "Racial Formulations, Popular Conscious and Policy Implications," **Fernando Capasin**, assistant professor of labor and industrial relations, 7 p.m., 305 HUB.

Wednesday, March 27

■ "How do African and Biral American Women Persist at Penn State," **Ruth Sinton**, graduate student, Higher Education Program, 7 p.m., 322 HUB.

■ "Administrative Responses to Homophobia in the University," **Susan Rankin**, senior diversity planning analyst, Office of the Vice Provost for Educational Equity, 7 p.m., 323 HUB.

■ "The Need for an Internal Marshall Plan," **William Cross**, professor of psychology, and African and African American Studies, 7 p.m., 318 HUB.

Thursday, March 28

■ "Values in our Community," **Kenneth Clarke**, assistant director, Center for Ethics and Religious Affairs, and **Tuvia Abramson**, director, Hillel Penn State, 11 a.m., brown bag lunch, Donovan Room, HUB.

Pride Week activities to begin on March 27

The Lesbian, Gay, Bisexual Pride Week, Wednesday, March 27, through Wednesday, April 3, kicks off with a rally on the steps of Schwab Auditorium, at noon. "Pride Week is a chance for us to celebrate ourselves and what we are," says **Kyla Zeigler**, political co-director of Lesbian, Gay, Bisexual, Student Association, (LGBSA).

The week's activities include:

■ Thursday, March 28, 7:30 p.m., Queer Cabaret, 102 Kern

■ Friday, March 29, 5:30 p.m., "What is Marriage Anyway," discussion, 101 Kern

■ Saturday, March 30, 11 a.m., Q Arts Fest, HUB Lawn; dinner-dance, 7 p.m., Nittany Lion Inn

■ Sunday, March 31, 2-9 p.m., Queer Cinema, movies on the Lesbian, gay, bisexual experience, Carnegie Cinema

■ Monday, April 1, 7:30 p.m., Elaine Hutchins, author of *Bi Any Other Name*, 7:30 p.m., location to be announced.

■ Tuesday, April 2, 6:30 p.m., reception for lawyers involved in the State of Hawaii same gender marriage court case, followed by lecture and discussion, Paul Robeson Cultural Center

■ Wednesday, April 3, noon, film, "Out In Suburbia," Center for Women's Studies, 102 Boucke.

Behrend College to present 1996 Women's Film Series

The 1995-96 Women's Film Series will be presented at Penn State Erie, The Behrend College, featuring "A Geish" on Tuesday, March 19, "Bhaji on the Beach," Tuesday, April 2; and "Cafe Au Lait," Tuesday, April 16. All films begin at 7 p.m. in the Reed Lecture Hall located in the Reed Union Building.

"A Geish," directed by Kenji Mizoguchi, is about the social revolution taking place in 1933 and the friendship between an older geisha and a 16-year-old girl who is training to be a geisha but must sell her body to survive.

Gurinder Chadha's film "Bhaji on the Beach" involves topics such as abuse, pregnancy, and sexism. It is a story about a group of Indian women with different

problems and prejudices, ranging from an abused wife to gossiping older women to boys chasing teenage girls.

The third film in the women's series is "Cafe Au Lait," a French version of Spike Lee's "She Gotta Have It." Directed by Mathieu Kassovitz, the film takes on racism and romance in Paris through the experiences of three young characters.

Ursula Davis, assistant professor of communications at Penn State-Behrend, will introduce each film in the series. Faculty members at the college will lead a discussion afterwards.

The Women's Film Series is sponsored by the Penn State-Behrend Office of Student Activities. For more information, call the Office of Student Activities at 898-6171.

Five in education honored for outstanding work

Five faculty and staff members were recently honored by the College of Education and the college's Faculty Council for their outstanding work. Those honored include:

■ **Edwin L. Herr**, Distinguished Professor of education and associate dean for graduate programs, research and technology, was presented the Career Achievement Award.

Dr. Herr joined the college in 1968, and throughout his tenure has served in many capacities, including head of the Department of Counselor Education, Counseling Psychology and Rehabilitation Services Education, University director of vocational education, interim dean, and director of the College of Education Counseling Services, among others. He earned a B.S. from Ship-

penburg State College, an M.A. and Ed.D. degrees from Columbia University Teachers College, and did post-graduate work at Harvard University. His career in education has included hundreds of publications, presentations and appointments.

■ **Robert J. Stevens**, associate professor of educational psychology, received the Outstanding Faculty Award. Dr. Stevens has been with the College of Education since 1991, and in those four years has earned the reputation as an outstanding colleague and teacher. Before coming to Penn State, he served at Johns Hopkins University as a research scientist in the Center for Research on Effective Schooling for Disadvantaged Students. He earned a B.S. from Bucknell Univer-

sity, and M.S. and Ph.D. degrees from the University of Illinois.

■ **Sharon Patrick**, administrative assistant to the dean of the college, was given the Excellence Award, which is presented each year to a staff employee who has shown outstanding abilities in all areas of the job. Ms. Patrick has served in the College of Education for many years, beginning her tenure in the Office of Clinical Experiences. She moved to the Dean's Office in 1989. She holds a B.S. degree in business education from Penn State and is a lifelong resident of the Centre Region.

■ The Support Staff Recognition Award was given to **Suzanne Harper**, staff assistant VIII in the Dean's Office, who has worked the college since 1975 beginning as systems clerk in the computer lab. She also is

a lifelong resident of the Centre Region and graduate of State College Area High School. Ms. Harper recently received the Award for Staff Assistant Support from the Division of Continuing and Distance Education and is a member of the Penn State Chapter of the Educational Office Personnel Association.

■ **Bobbi Robison** was honored with the New Professional Award for Support Staff, intended to recognize an outstanding new college employee. She joined the college in 1991 as a staff assistant, moving to the Department of Curriculum and Instruction in 1993. She has worked at Penn State for more than six years in various departments and is a graduate of Bald Eagle Area High School. She has attended many professional development workshops.

From the Trustee Docket

University encouraging collaborative learning

By ALAN JANESCH
Public Information

To help make sure that Penn State undergraduates are being taught as well as they can be in a rapidly changing world, many University faculty and staff are accelerating the move toward a model in which more students learn by doing and by helping each other learn.

Their efforts, encouraged by the Office of the Vice Provost and Dean for Undergraduate Education, include designing courses that employ information technology to allow students to seek out information actively instead of obtaining it passively by taking notes in a lecture, increase the use of proven tools such as writing, and encouraging students to work in teams.

"Our idea is to move from a teaching approach to a learning approach," John Cahir, vice provost and dean for undergraduate education, told the Board of Trustees March 15. "That is, we want to focus more on learning and the student, and to change the role of the teacher from that of sole source of information to that of a coach or guide who creates an environment in which learning occurs."

Dr. Cahir cited a number of recent Penn State successes, including:

- "By combining several University-funded and privately-funded programs that support teaching and learning, we were able to fund 59 faculty proposals for improved teaching and learning this year. This combined approach not only focuses faculty attention on learning goals, it conveys a larger message. We really do want to encourage change, and

"We want to focus more on learning and the student, and to change the role of the teacher from that of sole source of information to that of a coach or guide who creates an environment in which learning occurs."

John Cahir
vice provost and dean
for undergraduate education

we're prepared to help you do it." In addition, the Schreyer Institute for Innovation in Learning, the Leonard Center, the Educational Technology Service and the Center for Learning and Technology are delivering the same messages.

- Several colleges offer freshman seminars that focus on the development of writing and thinking skills. This year, the College of the Liberal Arts offered small seminars, taught by senior faculty, to 56 percent of its freshmen.

The College of Agricultural Science offered its highly successful freshman seminar to 70 percent of its freshman class, and the College of Earth and Mineral Sciences offered all its freshmen a three-credit seminar that involved substantial writing, oral presentations, Internet use and collaborative work.

- Penn State's freshman calculus course, previously taught through a large lecture/recitation approach, has been converted entirely to small class-

es. The class's success rate — a measure of the number of freshmen who satisfactorily complete one year of freshman calculus — has jumped by 36 percent since the conversion.

- Demand is growing for the 10-week seminars conducted by Penn State's Instructional Development Program for professors and teaching assistants. In 1992-93 there were 41 participants, in 1993-94 there were 84, and in 1994-95 there were 136. "This is not a course on how to teach. It is a course about learning from colleagues, from current literature, from collaborative problem-solving, and from developing portfolios that document each participant's growth."

- Eighty-eight percent of the faculty members who took part in and responded to a survey on last year's "Colloquy on Active and Collaborative Learning," report that they have changed their techniques or approaches to teaching as a direct result of participating in the daylong colloquy.

Penn State's third annual Learning Colloquy will be held in May, Dr. Cahir said. The first attracted about 100 participants, mainly faculty members, and last year's drew 150. This year's, to be held at three electronically linked locations, is expected to attract more than 200.

Dr. Cahir also cited surveys in which recent Penn State graduates say they are very satisfied with their education.

They also gave strong signals that Penn State is on the mark with its efforts to increase the use of computer and information technology, to improve writing and communications and to encourage collaboration.

Board approves final plans for Paterno Library at Pattee

By VICKI FONG
Public Information

The Board of Trustees on March 16 approved final plans and authorization to obtain bids and award contracts for the University's portion of the new Paterno Library at Pattee Library. The project adds a new entrance from Curtin Road, a major five-story addition to the east and a redesigned circulation space providing better access and service to all patrons.

The final plans by architects Celli-Flynn and Associates of Pittsburgh have undergone significant modifications since the approval of the sketch/preliminary plans in November 1994. The project's Building Committee has been consulting with a number of other campus committees to refine the original design and to better achieve the needs of the program.

Under the new plan, the mall entry will be retained, and a Curtin Road entrance will be added, providing access for users with disabilities. Leading up to the Curtin Road entry will be a plaza with a pavilion, a pedestrian underpass to the mall side, a vehicle drop-off area and a service yard screened by wall and landscaping.

The parking lots will be slightly reconfigured to allow semi-trailer access to the service docks and to maintain 50 parking spaces in the area.

At Curtin Road entrance, users will enter a new lobby. The Paterno Library will be to the left and a new circulation desk and an access corridor to West Pattee will be to the right.

The Paterno Library will house the Special Collections Library, including Rare Books Room, University Archives/Penn State Room, Historical Collections and Lab Archives as well as reading rooms, exhibit areas, offices and workrooms.

The second floor will house the Social Sciences Library, and the third and fourth floors, which will be extended, will house the Business Library, part of the



Preview

This is an artist's rendering of Pattee Library with the new Paterno Library addition.

Social Sciences Library and the Life Sciences Library. The fifth floor will house the Education Library and administrative offices.

The design of the additions proposes to create an integrated look to the Library, bringing together the original 1939 Central Pattee, 1965 West Pattee, the 1949 Stack Building and the 1972 former East Pattee, new part of the Paterno Library. The glass facade of East Pattee will be removed, and stone and brick finishes with cornices and columnar windows will complement older parts of the building.

"Overall, the new plan calls for better space and service for active users such as students, faculty, staff and visitors; and a better balance between traditional collections of books and technological resources," Libraries

Dean Nancy Cline said. "There will be more teaching space and an auditorium for lectures and events."

In addition, the project will improve the central facility which also serves the Commonwealth Educational Campus libraries and other branch libraries on the University Park Campus, and which serves public and academic libraries throughout the Commonwealth.

The Paterno Library is funded by \$11.7 million in private gifts including \$250,000 from Head Football Coach Joe Paterno and Sue Paterno and a \$14.8 million state appropriation.

The new design will go next to the Pennsylvania Department of General Services. Total project budget is estimated at \$26.5 million and the construction schedule estimated at 18 to 24 months.

From the Trustees Docket

Final plans approved for Altoona residence hall

The Board of Trustees on March 16 approved the final plans for a 320-bed residence hall to be built at the Penn State Altoona Campus. The new residence hall, to be called Cedar Hall in keeping with Penn State Altoona's theme of naming the residence halls after native Pennsylvania trees, was designed by Noelker & Hull Associates, Inc., Architects, of Chambersburg, and is projected to cost \$8 million.

The official approval authorizes the University to obtain bids and award contracts for construction of the project. Cedar Hall will have four wings, starting at one story high and increasing in height to four stories. Its appearance will reflect the styling of a traditional residence hall with brick-veneered exterior walls and gabled pitched roofs. Groundbreaking is scheduled for June 1, for occupancy in July 1997.

"We are very pleased to have a new residence hall," said Thomas V. Gibson, assistant vice president for auxiliary services, which provides housing and food services to all campus locations. "They give the University opportunities to offer students a range of informal educational programs from discussions with faculty to counseling and coping sessions with residence hall assistants."

Allen C. Meadors, campus executive officer for Penn State Altoona, sees the new residence hall as a tremendous benefit to the Campus. "We had nearly 700 students apply for housing this year who we were unable to place," Meadors said. "The construction of Cedar Hall will make a significant dent in the large demand."

"We've maxed out on both our on-campus and off-campus housing," explains W. Dennis Stew-

art, director of business services at Penn State Altoona. "Consequently this is a very timely and welcome addition to our facilities." Current housing capacity on campus is 579, and about 40 students are currently in overflow areas or have tripled up in the residence halls.

The plan features 80 units with two bedrooms and a shared bath in each unit, and study and lounge spaces on each floor of each wing.

Future building projects at Penn State Altoona are expected to include a new academic building, the addition of the Ralph and Helen Force Advanced Technology Center to the Holtzinger Engineering Building, and addition of weight room space to the Adler Athletic Complex. Currently, the Slep Student Center is being renovated and the Campus is enjoying the use of a recent increase in bookstore space.

Parking lot conversion to aid Jordan Center

The Board of Trustees on March 16 approved plans to construct a new hard-surface parking lot that will provide additional parking for the Bryce Jordan Center at the University Park campus.

Several sold out or nearly sold out events held at the Center — including Big Ten basketball games and concerts — have strained the paved parking capacities, available on nearby areas of the campus.

The project involves the conversion of the grass parking area to the west of Beaver Stadium, within easy walking distance of the Bryce Jordan Center, to a hard-surface lot with at least 400 spaces. Beside benefiting the Center, the conversion will also provide more convenient parking for disabled football fans and for various intramural athletic events held on the adjacent Beaver Field and Jeffrey Field.

Additional improvements to the parking lot area will include a sidewalk, new landscaping, and stormwater controls.



More coming

Sold-out events at the Bryce Jordan Center have put a strain on the University's parking lots. Construction of a new hard-surface lot near the center and Beaver Stadium will ease the problem.

Photo: Greg Grieco

Room, board rates for 1996-97 academic year approved

By CHRISTY RAMBEAU
Public Information

The Board of Trustees approved the 1996 Fall Semester room and board rates and rental charges at the University Manor, the student apartment complex, at the Milton S. Hershey Center, effective July 1.

The 1996-97 room and board charge for an undergraduate student living in a standard double room will increase by \$35 from \$950 to \$985 a semester and the charge for Meal Plan 3, which provides about 12 to 13 meals a week and is the plan most often selected by resident students, will increase by \$30 from \$1,070 to \$1,100 a semester.

The average room and board charge for the 1996-97 academic year will be \$4,170, which is an increase of \$130 (or 3.2 percent) over the 1995-96 room and board rate of \$4,040 per semester.

Graduate residence hall rates for a standard double room with a meal plan at University Park will be \$1,020 a semester, and \$1,130 a semester for a double room without a meal plan. Rental costs for Graduate Circle Apartments will be \$395 a month for a one-bedroom unit and \$460 for a two-bedroom unit, while Eastview Apartments will be \$305 a month for a one-bedroom apartment and \$370 for a two-bedroom unit.

Both graduate and undergradu-

ate students have several housing and meal options to choose from ranging from single rooms to two-person apartments and from Meal Plan 1 to Meal Plan 6, depending on how many meals they select.

At Penn State Erie, the Behrend College apartment rates for a semester will increase \$50 a semester to \$1,225 a person for a two-bedroom garden apartment for four students and \$1,160 for a three-student apartment.

At Penn State Harrisburg, the Meade Heights Apartments will range from \$1,235 to \$1,070 a semester, depending on the number of occupants.

At Penn State's Hershey Medical Center, the cost of renting one of the 24 one-bedroom apartments in University Manor East will increase by \$16 from \$500 to \$516 a month. Rents for the 164 two-bedroom apartments will increase by \$18 from \$594 to \$612 a month; the 44 two-bedroom apartments with washers and dryers will increase by \$18 from \$638 to \$656; and the 16 three-bedroom apartments will increase by \$22 from \$650 to \$672 a month.

University Manor West apartments has 31 four-bedroom furnished apartments, and rental for these will increase by \$36 a month, from \$1,060 to \$1,096.

Elms

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Pattee Library like it once did."

As members of the 1996 Senior Class Gift Committee, both Kate and Steve have reason to focus on the stately elms — their class voted in record numbers to help preserve the aging glants that number about 70 in the mall area and about 400 campus-wide.

Through the \$125,000 class endowment, the elm tree stock on the University Park Campus has a better chance of being preserved. The University will invest the gift, and about half of the annual income it earns will be used for maintenance, upkeep and replacement of the elms. The remainder will be reinvested with the principal funds, for continued growth.

So far, through a combination of telephone solicitations, T-shirt sales and seniors agreeing to donate a portion of the balance of their general deposit to the project, the committee has surpassed the \$100,000 mark, according to Steve.

Gail shy of their goal, the committee began brainstorming for a really raising idea that would really appeal to Penn State fans. Kate came up with the notion that the committee could share the beauty of the gracefully arching elms through a photo poster.

"I thought this would be a good way to raise money and to help raise awareness for the cause," she said. "Most fund raisers in the past have had little to do with the actual gift, but the nature of this particular gift really lends itself to something like this and allows us to show what the money will be used for."

In a 24 X 36 inch-format, the black and white poster displays a scenic summer view of a select group of elms with arched arms and willowed branches on the Pugh Street Mall, as seen when looking toward College Avenue. The picture, taken by Kate, a journalism



For a good cause

This is the poster being sold to help raise money for the Save the Elms endowment. Posters are \$10 each and are available on the University Park Campus in 17 Old Main and at select locations in downtown State College.

and political science major, is accompanied by the words "The Elms" and the Penn State mark.

"The canopy effect of the trees is so majestic and beautiful," she said.

"It adds so much to this campus and I think it's something we might take for granted until it's too late. I picture coming back in 20 years and having no trees. It's really a nightmare."

Both seniors admitted that the winter storm in early November which destroyed at least 10 elm trees — each valued between \$45,000 and \$75,000 — and caused millions of dollars in damage to the landscape campus-wide has really worked as a catalyst for their cause.

"The storm was a wake-up call," Steve said. "It was very destructive but I think it has helped us tell our story. We designated the elms because we felt they were in jeopardy and then the storm just proved the point."

"Because of the storm, people are now regularly seeing trees being cut down and they can see how time and the storm are really causing havoc," Kate added. "They can also see what a key role on campus these trees play and how precious they are. They're looking at an empty spot where an elm once stood and they really miss its beauty and its presence."

Jack Lingenfelter, grounds maintenance superintendent, said nearly every tree on campus had damage from the storm resulting in the removal of branches or well-established limbs. The elms, however, are in particular danger because the repair and rehabilitation work must be done quickly to give the trees a chance to heal and seal their wounds before May when the bark beetles — dreaded carriers of Dutch Elm disease — descend.

"It's really a serendipitous situation," Paul Ruskin, spokesman for the Office of Physical Plant, said. "This endowment coming at this time is like the calvary has come over the hill to save us. We're grateful."

"Over the years that we've been here," Steve said, "we've seen a lot of trees come down and I think we're all just starting to notice and fear there won't be any left — except what our memories hold."

The poster is on sale on the University Park Campus in 17 Old Main and at select locations in downtown State College for \$10.

Graduate

continued from page 1

years, total graduate enrollment as of Fall Semester 1995 was 10,758. Much of the growth was provided by the increased number of students at the Great Valley Graduate Center.

"Graduate enrollments of underrepresented minorities totaled 438 in Fall 1995 up from 384 a year earlier and compared to 1991."

"Degree progress among underrepresented minority students has been excellent," he added. "The number of degrees granted has increased in recent years and time-to-degree is less than the University-wide average for both the master's degree and the doctorate."

However, Dr. Erickson cautioned, "Although

significant progress has been made in promoting greater participation of minority graduate students as a percentage of total enrollments, additional efforts will be needed to solidify and expand upon those gains."

International students currently number about 1,800 with 97 percent enrolled at University Park. Dr. Erickson added, "In 1993, the Task Force on Graduate Education set a very ambitious goal of increasing the number of all graduate students at the University, hoping to grow at a rate of 3 percent annually."

"In the absence of a massive infusion of new resources and in the face of changing demograph-

ic and economic trends, significant new enrollment gains will be more difficult to achieve and longer run in nature than originally anticipated."

Dr. Erickson pointed out that recent national projections of graduate enrollments by the U.S. Department of Education have significantly scaled down prior forecasts. Total graduate enrollments are projected to remain essentially flat over the next decade.

Dr. Erickson said these projections suggest that universities will have to become even more competitive on all fronts in the years ahead.

"I am confident that Penn State's faculty and students are up to the task," he said.

Faculty/Staff Alerts

Employment of minors

Supervisors are reminded that the Pennsylvania Child Labor Law requires that an employment certificate (sometimes referred to as "working papers") be obtained before any minor begins working for the University. A minor is anyone under age 18 who has not graduated from high school, or who has not been declared by the high school as having attained maximum academic potential in lieu of graduation. Also, the minimum age for University employment is age 16.

The employment certificate is issued by the minor's high school. Employment certificates are maintained on file by the Employment Division, or appropriate business officer or human resources officer at facilities away from University Park. When a minor ceases employment, the Employment Division, or appropriate business human resources officer, must be notified so that the certificate can be returned to the issuing high school, or to the minor, as appropriate.

Supervisors are asked to review University policy HR-2, Employment of Minors, before committing employment to a minor.

Education Day

The second annual "Minerals & Materials Junior Education Day" will be held June 1 at the Earth and Mineral Sciences Museum on the University Park Campus. The event is open to students in grades one through eight. Admission to this event is free and registrations are now being accepted.

Minerals & Materials Junior Education Day exposes grade school students to the wonders of the earth and materials sciences. At educational stations set up in the museum, students will learn first-hand about rocks, metals, minerals and fossils.

All participants must pre-register before May 14 by calling the museum at (814) 865-6427. In the Lock Haven area, call **Bob Carnein** at (717) 893-2068. Sessions begin at 10 and 11 a.m., noon and 1 p.m. on Saturday, June 1.

Upcoming HRDC courses

Several courses are being offered by the Human Resource Development Center.

To see a description of each course, check your HRDC course catalog or log-in to the Intercom Web Site from the home page of the Office of University Relations at URL <http://www.ur.psu.edu>. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

Faculty Senate News

The University Faculty Senate will meet at 1:30 p.m. Tuesday, Room 112 Kern Graduate Building on the University Park Campus.

Items to be addressed:

- Curriculum Report of March 14.
- Long-term Budget Trends Effect on Instruction (Informational).
- Nominating Committee Reports from the Committee on Committees and Rules and Senate Council (Informational).
- Roster of Senators for 1996-97 (Informational).
- Salaries of Full-Time Faculty: Fall 1995 (Informational).
- Status Report of the Special Committee on General Education (Informational).

Alumni Association honors Mobil v.p. as Alumni Fellow

Anthony Silvestri, vice president of Mobil Research & Development Corp. and general manager for environmental health and safety at Mobil Oil Corp., has been named an Alumni Fellow. The award is the most prestigious honor given by the Penn State Alumni Association.

The Eberly College of Science will host a four-day visit for Dr. Silvestri from April 1 to 4, during which he will interact with students, faculty and administrators throughout the University.

Dr. Silvestri received a bachelor's degree in chemistry from Villanova University in 1958 and a doctoral degree in chemistry from Penn State in 1961. He joined Mobil as a research chemist at the company's Paulsboro Research Laboratory in New Jersey. He retired from Mobil on March 1.

During his career with Mobil, Dr. Silvestri worked in the areas of catalysis, catalytic processing,



Anthony Silvestri

the production of synthetic fuels and the formulation of lubricants and fuels. He was promoted to manager of analysis and special technology in 1973, to manager of catalysis research at its Central Research Lab in 1975, to manager of process research and development at its Paulsboro Research Laboratory in 1977, to manager of planning coordination in the Research and Engineering Planning Department at the company's New York offices in 1979, to manager of the Process Research and Technical Service Division at Paulsboro in 1980, and to manager of the Products Research and Technical Service Division at Paulsboro in 1984. He was named vice president in 1989.

The Alumni Fellow award is administered in cooperation with the academic units. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.

■ Coming up

President **Graham B. Spanier** will visit the University's Wilkes-Barre Campus today, and the city of Pittsburgh on Wednesday, March 27. The final two stops on his statewide tour are York Campus on Wednesday, April 10, and the Abington-Ogontz Campus on Thursday, April 18.

The tour is part of the president's statewide initiative to rededicate the University to the people it serves and to reinforce Penn State's commitment to its diverse constituency. The visits also provide opportunities for citizens to express their views and increase their understanding of Penn State and higher education in general.

Brief information about the Wilkes-Barre Campus follows:

FAST FACTS ABOUT WILKES-BARRE CAMPUS

Founded: 1916

Service area: Wilkes-Barre, Tunkhannock, Towanda

Acting CEO: Thomas G. Winter

Enrollment: 800

Key programs: Offers seven associate degree programs: biomedical engineering technology, electrical engineering technology, mechanical engineering technology, surveying technology, telecommunications technology, business administration and letters, arts and sciences. In addition, offers two baccalaureate degree programs: surveying and electrical engineering technology.

Obituaries

Roy Allison Sr., former Penn State Harrisburg associate professor of education, died Oct. 1, 1995 in Polyclinic Medical Center at the age of 70.

Dr. Allison served on the Harrisburg faculty from 1968 to 1987, when he retired with emeritus status. He held a bachelor's degree from Shippensburg University and a master's and doctorate from Penn State.

Calvin C. Brossman, maintenance worker general at the Penn State Berks Campus, died Jan. 19 at the age of 61. He had worked for the University from Dec. 3, 1990.

Harry C. Burris, lead carpenter, Office of Physical Plant, from June 1, 1966, until his retirement Jan. 1, 1987; died Jan. 10 at the age of 70.

Sarvadamani Chowla, professor of mathematics from 1963 until his retirement in 1978, died Dec. 10, 1995, at the age of 88.

Dr. Chowla, who attended Trinity College, Cambridge, England, where he received his doctorate in 1929, held professorships at St. Stephen's College in Delhi, India; Benares Hindu University in Benares, India; Andhra University in Visakhapatnam, India; and was head of the department of mathematics at Government College at Punjab University, Lahore, India, from 1936 to 1947.

He went on to Princeton in 1948 to become a member of the Institute for Advanced Study. Before coming to Penn State, he was professor of mathematics at the University of Kansas, in Lawrence, Kan., and at the University of Colorado in Boulder.

He also spent a year as visiting professor at the University of Notre Dame.

Dr. Chowla's primary interest was research into the theory of numbers.

He was a member of the Royal Norwegian Academy of Sciences and the Indian National Academy of Sciences, where he was honored with a Padmabhushan award.

The ARTS

AT PENN STATE



Upcoming performance

Davis Rousseau/REALTY, "Whispers of Angels" will be on stage at 8 p.m. Saturday, April 20, at Eisenhower Auditorium on the University Park Campus. For information, call the Eisenhower Ticket Office at (814) 863-0255.

Photo: Donna Anne McAdams

Children's Opera

Penn State's Children's Opera will present "Dyfrig, the Dragon" at 2 p.m. Saturday, March 23, and Sunday, March 24, in Room 122 of Music Building II on the University Park Campus. The performance, for children of all ages, will be directed by School of Music Instructor Sara Hopkins.

"Dyfrig" was written by Welsh composer Mervyn Burtch, who teaches at the Welsh College of Music and Drama in Cardiff, Wales, and has written numerous operas for his college students to perform in the elementary schools of Wales as part of the Early Bird Opera.

The audience of "Dyfrig" also will have the opportunity to participate in the performance. Before the opera begins everybody will be taught the choruses. The words are in English and are easy to learn. Cue cards will be used to assist the audience. The performance is free to the public.

Chamber Orchestra

Penn State's Chamber Orchestra, under the direction of Pu-Qi Jiang, associate professor of music, will present its spring concert at 4 p.m. Sunday, March 24, in the College of Arts and Architecture School of Music Recital Hall on the University Park

Campus.

The program will include Mozart's Divertimento No. 2 in D Major K.131, and Beethoven's Symphony No. 2 in D Major, Lukas Foss' "Concerto for Oboe and Orchestra" (1948), one of the composer's more tonal and sectionalized early works, will be performed by the orchestra and oboist Timothy Hertz, assistant professor of music.

The concert is free to the public.

Odyssey on WPSU

On the next episode of Odyssey Through Literature, Gerhard Strasser, of the Penn State German Department, and host Leonard Rubinstein discuss Strasser's exploration of a 17th-century Jesuit mathematician's journey overland to Tibet.

In the late 1650's, Johannes Gruber, a Jesuit monk, volunteered for the first official mission to attempt to cross Asia by foot. Gruber's mission, along with one fellow clergyman, was to travel from Europe, across Asia, to Beijing. The purpose of his mission was to improve maps of this relatively unknown territory and to learn some of the languages of the native cultures he encountered along the way.

Because the church at that time was full of contempt for pagan cultures, Professors Rubinstein and

Strasser discuss the validity of Gruber's observations.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM. A complete schedule can be found on the Odyssey Through Literature site on the World Wide Web. The site address is <http://mickley.la.psu.edu/complit/odyssey/odyssey.htm>.

Flute Ensemble in concert

The Penn State Flute Ensemble will present its spring concert at 8 p.m. Sunday, March 24, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The program will include three contemporary works for flute choir. "Changes" by Maury, features each player as soloist in the seven character studies that comprise the suite. "Musette" and "Tambourin" by Nivard, is a delicate and pastoral work transcribed by flutist Jeffrey Zook. Wiesenthal's "Homage to Fellini" explores textures and sonorities suggestive of the experimental and colorful creations of the renowned Italian film maker. Chamber works for three and four players drawn from the baroque, classical and romantic eras also will be presented during the concert.

The 14-member Flute Ensemble, under the direction of Eleanor Dunbar, Armstrong and Jeanne Provan, will use diverse instruments of the flute family such as the piccolo, alto, C-flute and bass.

The concert is free to the public.

Castalia Trio

The Castalia Trio will present its spring concert at 8 p.m. Wednesday, March 27, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. The first piece on the program is a short work by Andrew Rindfleisch, a student at Harvard University. It was chosen through a national competition sponsored by Phi Mu Alpha Sinfonia.

The first half of the program will conclude with the Trio in D major op. 70, No. 1 by Beethoven, which is referred to as "The Ghost." After intermission the Castalia Trio will perform Brahms Trio in C major op. 87.

The concert is free to the public.

Mallet Ensemble

The Penn State Mallet Ensemble, directed by Dan C. Armstrong, associate professor of music, will perform for the Bach's Lunch concert series at 12:10 p.m. Thursday, March 28, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The concert will feature music by



BRYCE JORDAN CENTER

Upcoming events

Saturday, March 23

Thunder Nationals — Monster Truck Racing, 8 p.m.
Tickets \$12 — all seats reserved.

Sunday, March 24

Thunder Nationals — Monster Truck Racing, 2 p.m.
Tickets \$12 — all seats reserved.

Friday, March 29

Jackson Browne with special guest Vonda Shepard, 8 p.m.
Tickets \$32.50/\$25.50/\$20.50.

Sunday, March 31

Tim McGraw with special guest Faith Hill, 7:30 p.m.
Tickets \$25.50/students \$23.50 with ID.

Monday, April 15

Bush with special guest Goo Goo Dolls and added guest No Doubt, 7:30 p.m.
All tickets \$22 — 1,500 floor standing tickets available.
Reserved seating available on event & concourse levels.

Wednesday, April 17

Steve Miller Band, 7:30 p.m.
Tickets \$20/Circle/all others \$15.75.

Friday, April 19

Arena Football — Albany Firebirds vs. Connecticut Coyotes, 7:30 p.m.
Tickets \$20/\$15/students \$5 off with ID.

All tickets on sale now.

Tickets for all Bryce Jordan Center events can be purchased at The Ticket Office located at the Bryce Jordan Center; or tickets can be ordered by phone: (814) 865-5555 or (800) 863-3336.

von Weber, Granados and Mendelssohn, all newly-published arrangements by Peter Tanner of the University of Massachusetts. Michael Hooper, Erik Liebgott and Teri Stephens will perform an unusual trio for marimbas titled "Horse Thief" by Robert Kreutz.

The audience may take a brown bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided.

See "Arts" on page 14

CONFERENCE CENTER: Special Report

Programming attracts worldwide interest

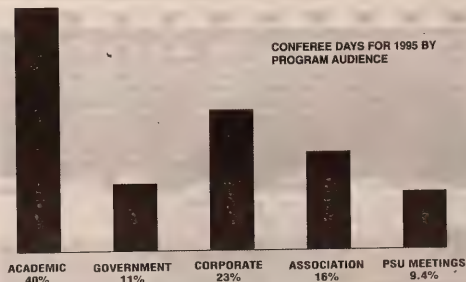
A SPECIAL REPORT ON THE PENN STATE SCANTICON

In its first full year of operation, The Penn State Scanticon Conference Center Hotel exceeded its 1995 revenue goals. Penn State's colleges contributed significantly to that growth. All day-to-day operating expenses, including food and beverages, hotel rooms, on-site conference services (logistical and technical support), and marketing, were covered through revenues generated. The property generated excess income before fixed charges, financially performing in its first full year significantly better than anticipated.

The Penn State Scanticon also exceeded its overall 1995 programming goal of 52,000 conferee days (the number of people participating in a program/conference multiplied by length of stay), resulting in a high growth rate of 30 percent over 1994's opening year. Almost one-half of the programming was generated by academic colleges. The remaining programming included 23 percent corporate audiences, 16 percent association audiences, and 11 percent government audiences. Penn State academic and support units utilized the new meeting space as well, comprising 9% overall use.

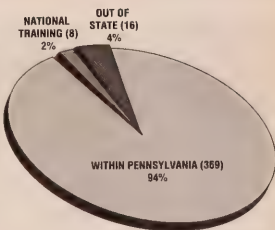
A number of faculty members who are involved in professional associations were able to host large association meetings at Penn State for the first time. Academic conferences emphasizing research dissemination and exchange brought a wide variety of scholarly and scientific audiences to Penn State. Most external corporate businesses and other association meetings, largely educational in nature, were attracted to this facility through relationships with Penn State faculty.

Many conference center participants took advantage of the superior technology available, including access to the Internet, group systems software, and interactive compressed video equipment. Feedback on the facility has been uniformly positive as a space well suited to small and large meetings and well-designed for learning, good acoustics, and comfortable seating.



"It's good to see the faculty taking advantage of the new conference center for conferences and meetings. We've drawn national and international visibility from those conferences showcasing our faculty and departments. I expect continued growth as more faculty become aware of the outreach potential this facility offers."

—Dr. John A. Brighton, executive vice president and provost of Penn State



EXTERNAL DIRECT BOOKING FOR 1995

Goals met for 1995:

- Financial goals exceeded.
- 130 new academic programs delivered.
- Average conference increased from 60 to 86 attendees.
- Goal of 52,000 conferee days* surpassed.
- More than 49 percent of conferee days* Penn State-related.
- More than 90 percent of external association and corporate clients Pennsylvania-based.
- Scholars from 50 countries hosted.

* (the number of people participating in a program/conference at The Penn State Scanticon multiplied by length of stay)

A STRONG BEGINNING

CONFERENCE CENTER: Special Report

PROGRAM HIGHLIGHTS

Since its doors opened in May 1994, an ever expanding number of Penn State faculty and staff members have held meetings, conferences, programs, and seminars at The Penn State Scanton, the University's new conference center. The programs, which continue to expand Penn State's visibility and leadership, have disseminated faculty research, served professional and educational associations, incorporated technology, and expanded Penn State's outreach to the Commonwealth and beyond. Some examples and selected comments follow.

Research Dissemination

■ *V.M. Goldschmidt Conference: An International Conference for the Advancement of Geochemistry*

Penn State hosted the world's largest geochemistry conference in 1995. Organized by the Goldschmidt Society and co-chaired by Hubert L. Barnes, Distinguished Professor of Geochemistry in the College of Earth and Mineral Sciences, the meeting focused on research critically important to the development of new heat sources and the discovery of new kinds of materials and processes. An international marketing effort designed and implemented by Continuing and Distance Education helped attract geochemists from around the globe.

■ *Nutrition and Exercise Institute (Noll Physiological Research Center)*

Building on the cutting-edge research of faculty members in Penn State's Noll Physiological Research Center, this three-day institute offered participants the most recent research findings and applications related to nutrition and exercise. Under the guidance of faculty chair William Evans, director and professor of nutrition and exercise science, each day focused on a critical area crossing the two disciplines, including aging, exercise performance, and weight loss.

■ *River Analysis for Engineers*

Arthur Miller, professor of civil engineering in the College of Engineering, has developed a short course that uses lectures, discussion, computer simulation, and computer labs to help civil engineers anticipate the impact of water flow on engineering projects. No other university offers such a course featuring the next generation of hydraulic software. The course, presented in 1995 at The Penn State Scanton, has been so successful that it is being studied for use by federal, state, and local governments.

Technology-related Conferences

■ *Computer-based Design Visualization for Architects*

The Penn State Scanton has been cited as the best computer-design teaching lab in the country because of its high-tech capabilities. These facilities make it possible for the University to present programs that require the latest technology. Loukas N. Kalisperis, associate professor of architecture in the College of Arts and Architecture, was unaware of the potential until Carol L. Hodes, a Continuing and Distance Education program planning associate, developed a workshop idea, presented the proposal, and convinced him to do the program. Both Dr. Kalisperis and the architects who attended were impressed with the organization and delivery of this workshop. It gave the participants an unprecedented opportunity to share their experiences and research on computer-based architectural design visualization. The workshop has resulted in the development of similar program initiatives for landscape architects.

■ *PSBA/PASBO Technology Conference*

The Pennsylvania School Boards Association (PSBA), the Pennsylvania Association of School Business Officials (PASBO), and College of Education faculty Elizabeth T. Cooper, assistant professor, Robert M. Hendrickson, department head, and Robert F. Nicely, associate dean, participated in the largest technology conference these organizations have ever held. Enrollment, originally projected at 150, was capped at just over 600 due to space considerations.

"You hit one out of the ballpark. We had an excellent, eventful, meaningful, problem-free, world-class experience." —Geoffrey L. Davis,

director of in-service education for the Pennsylvania School Boards Association (PSBA) Inc.

■ *Traffic Engineering and Safety Conference*

The Pennsylvania Transportation Institute at Penn State and the Pennsylvania Department of Transportation initially envisioned a standard conference, but this vision quickly changed as conference enhancements added such features as a corps of graduate students, booth exhibit area with Internet connections and phone lines to call traffic intersection sites, a full-size car with a directional computer on board, optional half-day computer workshops, and a driving safety simulator trailer (made accessible to local high school students). Nearly 400 participants enrolled, and they have already decided to repeat the conference in 1996.

"This was the best conference facility I ever experienced."

—Thomas Bryer, director of the Pennsylvania Bureau of Highway Safety and Traffic Engineering

International Conferences

■ *Playground Safety—An International Conference*

Issues related to playground safety around the world were explored by participants from twelve countries and twenty-three states. This first-of-its-kind conference addressed the issues and developed a framework for ongoing work on the development of a single international playground safety standard, setting the stage for future events of this type.

"As I wrap up the final portions of the Conference Proceedings, I feel very delighted to have been part of this endeavor. *Playground Safety—An International Conference* has demonstrated quality that Penn State can be proud of." —Monty L. Christiansen, associate professor of recreation and parks, College of Health and Human Development

New Teaching Models

■ *Acquisition of Spanish as a First or Second Language*

Penn State hosted the first national conference focused specifically on the acquisition of Spanish by children and adults. Conceived in response to a growing interest in current approaches that unify the study of child- and adult-language acquisition, the program drew on an increasing volume of research in the field. William R. Glass, assistant professor of Spanish, and Ana T. Pérez-Leroux, assistant professor of Spanish and linguistics, both in the College of the Liberal Arts, were pleased with the attendance of more than 150. The conference has helped place Penn State in a leadership position in this area of research and has given increased visibility to the Department of Spanish, Italian, and Portuguese.

Diversity-related Conferences

■ *Health Empowerment and Black Women*

African American women learned about health issues specific to them, as well as prevention strategies and ways to improve their health and the health of their communities at the *Health Empowerment and Black Women Conference* last fall.

"Our goal was to have these women take the information they learned at the conference back to their communities." —Toni P. Miles, professor in Penn State's Biobehavioral Health Program and director of the Center for Special Populations and Health, College of Health and Human Development

■ *Lesbian, Gay, and Bisexual Identities and the Family*

This meeting brought national experts to Penn State to study an important national issue. It evolved from a partnership involving the College of Health and Human Development, the Department of Human Development and Family Studies, and the Center for the Study of Child and Adolescent Development, and Continuing and Distance Education.

"I think Penn State should be proud of its superb staff and the conference center. I know that many people left deeply impressed."

—Anthony R. D'Augelli, professor of human development and family studies, College of Health and Human Development

A STRONG BEGINNING

CONFERENCE CENTER: Special Report

Community Outreach

■ *Revising Ophelia: Saving the Selves of Adolescent Girls*

Author and therapist Mary Pipher spoke to more than 100 parents, teachers, and counselors about the barriers young women face from sexist peer and media cultures. Her visit was sponsored by the College of the Liberal Arts. A high school English teacher in State College said that the week after the workshop several teachers began discussing the curriculum application of Dr. Pipher's message.

C&DE HELPS ENSURE SUCCESSFUL PROGRAMMING

Continuing and Distance Education provides a comprehensive conference planning team that is committed to providing marketing research, external client development, assistance with program development, program sponsors, marketing campaigns, program delivery, and conference proceedings. Programs have access to professionals who handle all aspects of conference management, from initial planning to program implementation, allowing the faculty program sponsor to concentrate on the content of the program. The result is comprehensive support in the development and delivery of high-quality academic and scholarly conferences, professional meetings, seminars, institutes, and workshops.

"Your (Continuing and Distance Education) efforts in securing external funding to help defray registration costs made it possible to attract a broader international audience."

—Sara J. Parks, associate dean and associate professor, College of Health and Human Development

The planning for a conference can begin as much as one to two years before the projected delivery, if marketing research is involved. The decision to launch *Food Service Manager 2000*, an annual institute of the College of Health and Human Development, followed a marketing research survey of potential participants. Building on feedback and suggestions from industry representatives, the original program idea and dates were modified to better meet the needs of the audience. The two-day conference, held in January 1995, attracted ninety-nine individuals interested in learning more about the future of their industry and provided Penn State with the opportunity to work with several state and national associations in sponsoring the program.

The Pennsylvania School Boards Association-Penn State Partnership, which provides outreach opportunities for the College of Education, came into existence through the efforts of Continuing and Distance Education's Office of Client Development. Client development staff members cultivate opportunities throughout the state to match corporate and business needs with University resources. They function to expand the outreach of Penn State and increase access to Penn State faculty expertise.

Professional program and conference planners also help select the most appropriate educational vehicle, including conferences, workshops, meetings, symposia, videoconferences, association meetings, on-site, on-line, and computer-based courses, other training opportunities, and access to other University resources.

Conferences coordinated through Continuing and Distance Education can also involve comprehensive marketing campaigns, including direct mail, advertising, public relations, telemarketing, and electronic advertising using World Wide Web pages and listservs.

In addition to the planning and organizing services provided, faculty hosting meetings at The Penn State Scanton gain access to state-of-the-art technology. Presenters can use the latest in multimedia services, interactive video for worldwide speaker presentations and audience participation in long-distance dialogues, language translation equipment for multinational conferences, and a Team Decision Center with group systems software that is designed for strategic planning, setting action plans, brainstorming, and more.

■ *When Catastrophe Strikes: The Oklahoma City Story*

Communities everywhere can benefit from the lessons learned about disaster management following the Oklahoma City bombing. This outreach program was developed by Edwin J. Donovan, assistant professor, Administration of Justice Institute, College of the Liberal Arts, and C. Suzanne Wrye, assistant professor of health education, Continuing and Distance Education. Featuring Major Garold Spencer, commander of the Oklahoma City Police Emergency Response Team, it gave police and emergency personnel throughout the state the opportunity to learn firsthand how to improve their own disaster preparedness.

Technical support and on-site technicians are part of the conference package. In November, Loukas N. Kalisperis conducted a *Computer-based Design Visualization for Architects* workshop to teach participants computer design.

"Very early on I knew I could depend on Continuing and Distance Education staff member Mr. Horton, who is in charge of computer classroom services at The Penn State Scanton. He was a crucial member of the team. He was proactive, thinking of contingencies I had not even considered. He was very professional—when I changed tactics in the middle of a seminar, he responded quickly, accommodating my requests. The computers worked perfectly, a situation difficult to obtain, but absolutely essential to provide participants the experience they expected."

—Loukas N. Kalisperis, associate professor of architecture, College of Arts and Architecture

The facilities provided by The Penn State Scanton, the on-site services provided by Scanton, and academic support services offered by Continuing and Distance Education, also give faculty members the opportunity to invite their colleagues to Penn State for professional meetings. Last year, nearly 400 leading geoscientists from around the world met for the *V. M. Goldschmidt Conference: An International Conference for the Advancement of Geochemistry*, the world's largest meeting in geochemistry.

"The Penn State Scanton, with its state-of-the-art conference facilities, made it possible for Penn State to host the conference at the University Park Campus for the first time." —Dr. Peter Deines, professor of geochemistry, College of Earth and Mineral Sciences

For more information, contact

Michael E. Ostroski (863-5111 or meo1@cde.psu.edu) or
C. Suzanne Wrye (863-5100 or csw1@cde.psu.edu), Conferences
and Institutes.

"The conference planner was key to the success of the conference....She took care of the details and permitted me to 'front' the sessions as host and chairperson with the confidence that every detail had been anticipated and covered."

—Monty L. Christiansen, associate professor of recreation and parks, about his program, *Playground Safety—An International Conference*

A STRONG BEGINNING

CONFERENCE CENTER: Special Report

C&DE SEED FUNDS

To help faculty members pursue their research and share their findings with others, Continuing and Distance Education has several competitive programs—the C&DE Research Awards, the C&DE Innovation Fund, and the Program Assistance Support Fund.

The C&DE Research Awards are competitive grants open to all Penn State faculty and staff members. Grants range from \$1,500 to \$5,000. A University-wide committee evaluates proposals on criteria including relevance to Penn State's continuing and distance education research priorities, overall proposal quality, and research design.

The C&DE Innovation Fund, formerly the Program Development Fund, offers colleges seed money to develop new programs, products, and services that meet the educational needs of adult learners and professional audiences, to foster research dissemination through a conference or institute format, or to enhance distance education. The Innovation Fund is available to all colleges, C&DE units, and Commonwealth Educational System campuses. Since 1993, this fund has supported thirty-two conferences. Twice a year, proposals are reviewed and selected by a committee composed of Academic Council on Continuing and Distance Education (ACCDE) deans and C&DE staff.

The Program Assistance Support Fund provides seed money to Conferences and Institutes programs that show potential for success in terms of content and ability to attract a new audience or enhance an existing one. In 1995, this fund supported fifty-three conferences.

In the past year, these funds have helped to establish more than 130 new academic conferences, meetings, or special institutes delivered at The Penn State Scanticon. In addition, external development and fund-raising efforts have supported various programs, often permitting lower fee structures and student-scholarship assistance. Special marketing efforts, including outbound telemarketing and phone surveys to assess participants' needs and interests, radio features, advertising and direct mail campaigns, the creation of a toll-free (800) phone line, and other support services increased the average enrollment in programs from sixty to eighty-six attendees and decreased program cancellation by 6 percent. These funding opportunities have helped change the confencing portfolio to emphasize the academic excellence of Penn State faculty and their programs. The conferences are reaching more national and international audiences.

If you have a conference or other continuing or distance education program idea that you would like to have considered for Continuing and Distance Education funding, contact

Patricia A. Book, associate vice president and associate dean (863-8355 or pzb2@cde.psu.edu), or Wayne D. Smutz, director, Program Planning (865-7679 or wds4@cde.psu.edu).

CALENDAR OF CONFERENCES

A calendar of upcoming conferences is available. Some of the programs offered during the next few months include:

- Academic Assistance Programs 1996 Spring Conference
- Control Yourself—A new paradigm for effective management of difficult children
- Creating a Principle-centered Learning Environment for Education
- NCTA What Works II: Postsecondary Education in the 21st Century: A National Conference
- Performative Subjectivities: Agents, Bodies, Identities—Penn State's 1996 Summer Seminar in Theory and Culture
- Media Literacy Summer Seminar
- Social Issues Affecting the 21st Century, Consumer Issues in the 1990s, Child Development, Learning, and Early Education
- Zoning Law and Administration Issues of land use, zoning legislation, and administration
- Penn State's 50th Annual Tax Conference
- Successful Innkeeping: Managing a Bed and Breakfast Inn
- Building and Managing Effective Supply Chains—Logistics and key issues facing legislators
- Communications Law Institute—Substantive law for instructors of media law
- Violence in the Workplace: An Agenda for Action
- Continuing Emergency Studies and Strategies—Dealing with natural and man-made emergencies
- Eating Disorders on Campus: The Institutional Response
- Nutrition and Exercise Institute—Issues related to obesity
- Sports Nutrition for Young Athletes—A Guide for Parents
- History and Philosophy of Math
- OnSite/InSight: Landscape History Symposium
- Wastewater Literature Courses
- Computational Methods in Stormwater Management
- Rotary Wing Technology Short Course
- RIS-96 Resonance Ionization Spectroscopy and Its Applications
- Bernstein's Traditions in Motor Control

For a full listing and descriptions of upcoming conferences and programs, visit Continuing and Distance Education's World Wide Web site: <http://www.cde.psu.edu/>

Please send me information about confencing and educational services available. I am interested in learning more about how C&DE can help me:

- ☐ Obtain funding
- ☐ Create a new program
- ☐ Host a gathering of my professional organization
- ☐ Invite the stars in my field to meet at Penn State

Name

Title

Department

Campus Address

Phone

E-mail Address

Conferences and Institutes
Penn State Continuing and Distance Education
225 Penn State Scanticon
University Park PA 16802-7002
Phone: (814) 863-5100 Fax: (814) 863-5170

PENN STATE



If you prefer, you may send the above information in an E-mail message to LI0N@cde.psu.edu

The Pennsylvania State University is committed to the policy that all persons shall have equal access to programs, facilities, admission, and employment without regard to personal characteristics not related to ability, performance, or qualifications as determined by University policy or by state or federal authorities. The Pennsylvania State University does not discriminate against any person because of age, ancestry, color, disability or handicap, national origin, race, religion, sex, sexual orientation, or veteran status. Direct all inquiries regarding the nondiscrimination policy to the Affirmative Action Director, The Pennsylvania State University, 201 Walnut Building, University Park PA 16802-2801, tel. (814) 863-0471, TDD (814) 863-5175. UEA-CED 96-1028

A STRONG BEGINNING

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, March 21
Cross-Cultural Health Program, noon, 305 HUB. General Body Meeting.
Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Concert Choir.

"Distance Learning Today" teleconference, 1 p.m., 129 (Studio C), Mitchell Bldg. "Interactive Learning Environments — Sharing Specific Examples of Interactive Communication."

Center for Academic Computing, 2:15 p.m., Studio D, Mitchell Bldg. PBS teleconference on "From Reality to Virtuality: New Tools for Distributed Learning."

■ HUB "Distinctive Styles" Concert, 8 p.m., HUB Fishbowl. "Alfredo Rolando Ortiz," South American harp player.

Friday, March 22
Slavic Folk Festival, 10 a.m.-10 p.m., HUB Ballroom. Also, March 23, 1-6 p.m.

Saturday, March 23
Office for Minority Faculty Development Workshop, 9 a.m., 110 Agricultural Sciences and Industries Bldg. Robert K. Loren on "Seeking Grant Funds Electronically." For reservations, call Mary Leone at (814) 863-1663.

Shaver's Creek, 11 a.m.-4 p.m. Old-Time Sugaring Demonstration Open House. Call (814) 863-2000.

School of Music, 2 p.m., 122 Music Bldg. II. Penn State Children's Opera. Also, March 24.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Gato Barbieri, saxophonist. For tickets, call (814) 863-0255.

Sunday, March 24
Gallery Talk, 2 p.m., Christoffers Lobby, Palmer Museum. Beth Lombardi on "Baroque Art at the Palmer Museum."
School of Music, 4 p.m., Recital Hall. Penn State Chamber Orchestra.

School of Music, 8 p.m., Recital Hall. Penn State Flute Ensemble.

Monday, March 25
■ Comparative Literature Luncheon, 12:15 p.m., 101 Kern. Emmanuel Maitaleyou on "African Systems of Writing: The Case of Shu-mono in Cameroon."
Leonard Center for the Enhancement of Engineering Education, 7:30 p.m., 108 Wartik. Interactive workshop. "What Color Is Your Brain?" by Sheila Glazov. Free to public.

Wednesday, March 27
School of Music, 8 p.m., Recital Hall. Castalia Trio.

Thursday, March 28
Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Mallet Ensemble.

Satellite Teleconference, 1 p.m., Studio C, Mitchell Bldg. "Distance Learning Today: Telecourse Techniques." Features teaching strategies using one- and two-way interactive video and audio technology.

Theatre Workshop in Disputed Cultures, 3 p.m., 6 Arts Bldg. A shared reading of a classic Irish play, "Shankunala." Also, March 29 at 5 p.m.

■ The play "Dance of Bone," 8 p.m., Paul Robeson Cultural Center. Set in Ethiopia in revolution and focuses on people caught in the crisis of change. Also March 29 and 30. Tickets are available at the Robeson Center.

School of Music, 8 p.m., Recital Hall. Penn State Trombone Choir/University Brass.



Coming soon

Ensemble Modern will perform at 8 p.m. Saturday, April 13, at the Eisenhower Auditorium on the University Park Campus. For information, call the Eisenhower Ticket Office at (814) 863-0255.

Friday, March 29
Center for the Performing Arts, 8 p.m., Schwab Auditorium. Juillard String Quartet. For tickets, call (814) 863-0255.
University Resident Theatre Company, 8 p.m., The Playhouse. "She Loves Me." Through April 6. For tickets, call (814) 863-0255.

Saturday, March 30
College of Engineering Open House, 9 a.m.-3:30 p.m.
Shaver's Creek, 11 a.m.-4 p.m. Old-Time Sugaring Demonstration Open House. Call (814) 863-2000.

School of Music, 1:30 p.m., Recital Hall. Penn State Horn Ensemble.
School of Music, 8 p.m., Recital Hall. Stephen Grazzini, solo recital.
Sunday, March 31
School of Music, day-long event, Recital Hall. Day of Percussion.

SEMINARS

Thursday, March 21
Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. John Baez on "Quantum Gravity and BF Theory in Four Dimensions."

Population Research Institute, noon, 406 Oswald Tower. Benjamin Campbell on "Adolescent Sexuality: Empirical Tests and Biocultural Models."

Geosciences, 3:30 p.m., 112 Walker. Sam Bowring on "Early Crustal Growth and Evolution."
Ecology, 3:45 p.m., 108 Wartik. David Bubenheim on "Controlled Ecological Life Support Systems: Space Exploration Tomorrow — Clean Water and Fresh Food Today."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Thomas Strick speaking.
Institute for High Performance Computing Applications, 4:15 p.m., 215 Hammond Bldg. Ron Selva and Koushik Ghosh on "Porting Parallel Applications to Cray Architectures."

Friday, March 22
Jewish Studies Program, 3:30 p.m., Palmer Ligon Auditorium. Elisabeth Maxwell on "Let It Not Come Unto You, All Ye That Pass By."
Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Bldg. Ira Parnamick on "Parallel Applications on Silicon Graphics Architectures."
Geography's Coffee Hour, 4 p.m., 208 Walker Bldg. John Kygion on "Marginal Ideas in Marginal Places: Landscape and the Debate over an Atomic Blast in Central Pennsylvania."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. David S. Warren on "The Problem with Prolog."

Monday, March 25
■ History, 10 a.m., 307 Boucke. Maurice Eric on "Ireland and the American Revolution." Also at 4 p.m. on "Irish Immigration to the Delaware Valley: 1763-1800."

■ Division of Undergraduate Studies, noon, 305 HUB. Katie Porter on "Academic Advice for Students Interested in Study Abroad."

Accounting, 3:30 p.m., 333 Beam BAB. Daqing Dave Qi on "The Effects of Corporate Disclosures on Market Expectations of Future Earnings."

Food Science Edgar A. Day Lecture, 3:30 p.m., 101 ASI. Barbara O. Schiesman on "Nutrition Science and Policy: Developing the Dietary Guidelines."

Institute for High Performance Computing Applications, 4:15 p.m., 215 Hammond Bldg. Simon Tavenor on "Stability, Bifurcation and the Role of Symmetry in Computational Fluid Dynamics."

John W. Oswald Lecture, 5:30 p.m., Palmer Museum. William C. Richardson on "Next Steps in Higher Education." Archaeological Institute of America, 8 p.m., 101 Kern. John F. Wilson on "Christians and Pagans in Ancient Panes (Caesarea Philippi)."

Chemera Lecture in Science, 8 p.m., 119 Osmond Lab. Freeman Dyson on "Tolstoy's 'War and Peace' as a Guide to Recent History."

Genetic Engineering Marker Lecture, 8 p.m., 101 Classroom Bldg. Ira Herskowitz on "Yeast Mating Types: Control of Cell Specialization and Regulation of the Cell Cycle by Anti-Mitogenic Factors."

Tuesday, March 26
Chemera Lecture in Science, 3:30 p.m., 119 Osmond Lab. Freeman Dyson on "The Origins of Strategic Bombing."

Geosciences, 3:30 p.m., 112 Walker. Andrew Knoll on "Proterozoic Evolution."

Biology, 10:30 a.m., 8 Mueller Lab. Scott Pothong on "Genetic Regulation of Phase Change in Corn and Arabidopsis."

Genetic Engineering Marker Lecture, 4 p.m., 102 Classroom Bldg. Ira Herskowitz on "Control of Cell Polarity by Endogenous Programming and by Extracellular Signals."

■ German, 4 p.m., Rare Books Room, Pattee Library. Consul Thomas H. Meister on "Cultural Life and Arts Promotion in Germany."

Graduate Program in Nutrition, 4 p.m., S-209 Henderson Bldg. South. Thomas Castorquay on "The Link Between Dietary Fat Intake, Stress, and Brain Damage." Jewish Studies Program, 8 p.m., Palmer Ligon Auditorium. Jonathan Steinberg on "The Enlightenment and Jewish Emancipation."

Landscape Architecture, 8 p.m., 102 Classroom Bldg. John R. Brackley Leach, Darrel Morrison on "Arcadia II: Where Design and Nature Meet."

Wednesday, March 27
Adult, Continuing and Distance Education, 11:45 a.m., 502 Keller Bldg. Terrence L. Riley on "Continuing Education: Taking Education to the Working Adult Student."

■ Center for Russian and East European Studies, noon, 102 Weaver Bldg. Laura Olson on "Inscribing a Female Tradition: Belka Akhmadulina's Poems to Marina Tsvetayeva."

National Association of Science Writers, noon, 114 Kern Bldg. Alex Wolsczkan on "Role of Astronomy in the Popularization of Science."

■ Science, Technology and Society Program, noon, 118 Willard Bldg. R. Thomas Berner on "The Sustaining Nature of the Ancient Chinese Process of Reprography."

Accounting, 3:30 p.m., 333 Beam BAB. Glen A. Hansen on "The Manipulation Content of Accruals and Discretionary Accrual Proxies."

Chemera Lecture in Science, 3:30 p.m., 119 Osmond Lab. Freeman Dyson on "Beginning and Ending of the Cold War."

Genetic Engineering Marker Lecture, 5 p.m., 104 Classroom Bldg. Ira Herskowitz on "Mating Type Switching: A Programmed Genetic Rearrangement and Cellular Asymmetry."

German, 7 p.m., 101 Chambers Bldg. Donald Herr on "Pewter in Pennsylvania German Churches."

Center for Women Studies, 8 p.m., Eisenhower Auditorium. Marian Wright Edelman on "Diversity Issues and How to Collaborate in Forming Multi-cultural Environments."

See "Calendar" on page 14

Arts

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Theatre workshop

The Theatre Workshop in Diverse Cultures (TWDC) will present a staged reading of the classic Indian play, "Shakuntala," by Kalidasa and directed by undergraduate Chris Hazlett at 3 p.m. Thursday, March 28, and 5 p.m. Friday, March 29, in Room 6 of the Arts Building on the University Park Campus.

The TWDC is a performance oriented class which explores the historic and contemporary theatrical works of various peoples in order to sensitize students to the broad cultural diversity that exists in artistic expression. The TWDC is part of the College of Arts and Architecture Department of Theatre Arts.

The readings are free to the public. Reservations are not required but can be made by calling (814) 863-9413.

Large Brass Ensemble

The Penn State University Brass, Conical Fury and the Penn State Trombone Choir will present a concert of music for large brass ensembles at 8 p.m. Thursday, March 28, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The Penn State Trombone Choir is under the direction of Mark Lusk, associate professor of trombone. Also conducting the ensemble will be graduate assistant Tim McKay. Conical Fury, a large ensemble of tubas and euphoniums, will be under the direction of Martin Erickson, visiting professor of tuba and euphonium, and Jason Byrnes, graduate assistant. The University Brass, an ensemble of musicians from all the brass studios in the School of Music, will be conducted by Professor Lusk, along with Wayne Myers and Mr. Byrnes, graduate assistants.

The concert is free to the public.

Dice of Bone

The play "Dice of Bone," set in modern Africa, comes to University Park on March 28, 29 and 30 at the Paul Robeson Cultural Center.

Funded by several Penn State administrative units, particularly those involved in diversity education and minority affairs, the play is directed

by Charles Dumas. The setting is Ethiopia in the throes of revolution, and the focus is on the human reality of traditional people caught in the crisis of profound change.

Tickets are \$4, \$3 with student ID if purchased in advance, and are available at the Robinson Center. Current times are 8 p.m. on March 28 and 29, and 2 p.m. and 8 p.m. on March 30.

"She Loves Me"

The University Resident Theatre Company concludes the 1995-1996 season with the production of "She Loves Me," directed by Cary Libkin, which will open at 8 p.m. Friday, March 29, at the Playhouse Theatre on the University Park Campus. This is the first musical production since the inception of the bachelor of fine arts in theatre with a musical theatre option. The University Resident Theatre Company is a part of the College of Arts and Architecture Department of Theatre Arts.

The production is dedicated to the memory of the late Robert Reifschneider, professor emeritus of the theatre arts at Penn State, who directed "She Loves Me" in 1971.

"She Loves Me" will continue through Saturday, April 6. All evening performances will begin at 8 p.m. Two student preview performances will be held at 6 p.m. Wednesday, March 27, and Thursday, March 28. A matinee will be presented at 2 p.m. Saturday, April 6.

Tickets are \$9.50 and \$8.50 for adults; \$7.50, \$6.50 and \$5.50 for students. For ticket information, contact the Arts Ticket Center, open Monday through Saturday, 8:30 a.m. to 4:30 p.m. at (814) 863-0255.

Photographs at Pattee

An exhibition of photographs by Meredith Paul are on display in Pattee Library's Lending Service Gallery through March 31.

Ms. Paul's subjects are scenes of her friends dressed in costumes that reflect perspectives on important issues in American culture past and present. For the first time, she has included self-portraiture in this show in an attempt to reveal different aspects of her identity.

Ms. Paul is a student at Penn State.

Darlene K. Haylett, food service worker B, Housing and Food Services, at Penn State Harrisburg.

George H. Horley, maintenance mechanic utility at Penn State Harrisburg.

Dennis L. Hostetter, maintenance mechanic at The Hershey Medical Center.

Harold A. Hoy, shipping and receiving clerk B in Housing and Food Services.

Ricky T. Kasubick, boiler operator in Office of Physical Plant.

Calendar

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SEMINARS

Thursday, March 28

Chemedia Lecture in Science, 3:30 p.m., 119 Osmond Lab. Freeman Dyson on "Nuclear Weapons in the Post-Soviet World."

Research and Graduate Studies, 4 p.m., 112 Kern. John Duncan on "The Cognitive Neuroscience of Selective Attention."

Jewish Studies Program, 7:30 p.m., Jewish Community Center, 620 E. Hamilton Avenue. Jonathan Steinberg on "Jews and Germans."

Friday, March 29

University Records Management Program, 10 a.m., C5 Pattee Library. Policies and Procedures affecting Records and Information Management at Penn State.

Rainbow Forums, 3:30 p.m., Wilkinson Lounge, Eisenhower Chapel. "Research on Gay, Lesbian and Bisexual Issues." Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Adam W. Burnett on "Modes of Variability in the Northern Hemisphere Circumpolar Vortex and Surface Climate."

CONFERENCES

Friday, March 22

Academic Assistance Programs Conference, The Penn State Scenic. Through March 23.

Monday, March 25

Violence in the Workplace, The Penn State Scenic. Through March 27. Management of the Physical Plant, The Penn State Scenic. Through March 27.

Wednesday, March 27

Fourth Annual Housing Conference, The Penn State Scenic. Through March 28.

Thursday, March 28

Managing Business Critical Information, The Penn State Scenic. Through March 29.

Research in Practice: Using What We Know, The Nittany Lion Inn. Through March 29.

Friday, March 29

Medieval Studies Conference, "From Moravia to Moscow: The Medieval Slavic World." Through March 30.

Football Coaches Clinic, The Penn State Scenic. Through March 30.

Saturday, March 30

Teaching and Learning with Technology Symposium, 9 a.m.-4 p.m. For information, call (814) 863-7763.

PUBLIC RADIO

WPSU-FM 91.5

"Morning Edition," Mon.-Fri., 6-9 a.m.

"Performance Today," Mon.-Fri., 8-10 p.m.

"All Things Considered," Mon.-Fri., 4-7 p.m.; Sat. & Sun., 5-6 p.m.

"Weekend Edition," Sat. & Sun., 8-10 a.m. "Fresh Air with Terry Gross," Mon.-Fri., 7-8 p.m.

"Odyssey Through Literature with S. Leonard Rubenstein," Sun., 6-8 p.m.

"Car Talk," Sat., 10 a.m. and Sun., 4 p.m.

"The Thistle & Shamrock," Sun., 3 p.m. "Piano Jazz with Marion McPartland," Mon., 10 p.m.

"Libri," Sun., 6 p.m.

EXHIBITS

HUB

Art Alley Cases:

International Mixed Media, diverse art, cultural exhibits and crafts. Through April 7.

Art Alley Panels:

Work by Patrick Casper, landscapes painted in plain air in the woods surrounding his hometown. Through April 7.

Formal Gallery:

Work by David Van Dommelen, fiber artist. Through March 30.

Kern

Kern Cases:

Heidi Zimble, porcelain clay and stoneware with hand painted decorations. Through April 7.

Slavic Eggs, dozens of intricately designed Ukrainian Easter eggs, called pysanky. Through April 16.

Kern Panels:

Roberta Moore, photography, black and white portraits of the human form. Through April 7.

Palmer Museum

"Recent Gifts: The Jack Bershad Poster Collection," through June 2.

Pattee

East Corridor Gallery:

Mixed media works by Steve Thompson, photography and computer art. Through March 31.

Lending Services Gallery:

Photographs by Meredith Paul. Subjects are scenes of friends dressed to reflect perspectives on important issues in American culture - past and present. Through March 31.

Zoller Gallery

MFA Exhibition - Dahn Hurn. Opens March 30 through April 9.

Reflects an international perspective

TIPS

Information Penn State

Call 863-1234, and enter the number of the message you wish to hear. Messages are listed in the front of the telephone directories. Other messages are Weather - 234; Arts Line - 345; University Calendar - 456.

Promotions

Technical Service

Larry S. Evans, HVAC maintenance mechanic in Office of Physical Plant.

Janice M. Fink, storeroom worker in Housing and Food Services.

Matthew L. Graham, maintenance worker, Area Landscaping, in Office of Physical Plant.

Fern J. Gruber, anesthesia workroom attendant at The Hershey Medical Center.

Ashley E. Hall, storeroom worker in Housing and Food Services.

Douglas S. Keith, electrician, maintenance in Office of Physical Plant.

Randall E. Kern, lead facilities system technician in Applied Research Lab.

James M. Klein, maintenance mechanic at The Hershey Medical Center.

William A. Massar, maintenance mechanic at The Hershey Medical Center.

Scott R. Raudenbush, linen handler at The Hershey Medical Center.

Stacy R. Showers, maintenance worker, Utility, Group Leader, in Housing and Food Services.

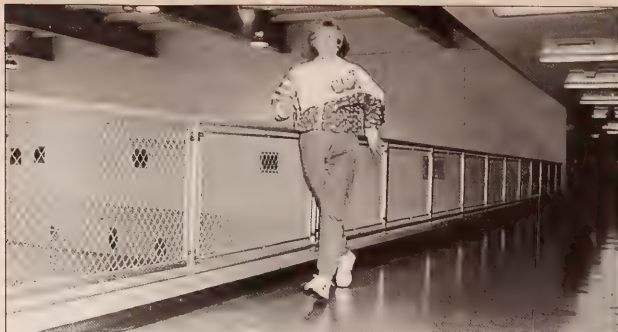
Franklin M. Shuey, maintenance mechanic at The Hershey Medical Center.

Samuel L. Stoak, maintenance mechanic at The Hershey Medical Center.

Donald E. Supenia, mechanic, A-WVIT, in Office of Physical Plant.

Donald C. Wolbert, offset duplicator/audio-visual operator at Penn State Erie, The Behrend College.

Martin C. Zellers, maintenance worker, Utility, in Office of Physical Plant.



Practice, practice, practice

Elizabeth Hanley prepares for her Olympic Torch run at the Intramural Building on the University Park Campus.

Photo: Greg Grieco

She'll carry a torch for Games she loves

As Olympic preparations swing into high gear, athletes from around the world, including dancer **Elizabeth Hanley** from Penn State, are getting in shape to carry the Olympic Torch.

Members of the International Olympic Academy Alumni Association will carry the torch from where it will be lighted in Olympia on March 30, across the Taigetos mountains, to Athens for the Olympic Centennial Celebration of the modern games on April 6. The torch will then continue

to Atlanta for the start of the 1996 Games, July 19.

In preparation, Ms. Hanley, whose Olympic specialty is international dancing, is running several times a week to be sure that she is ready to run a six-minute-kilometer with a three-and-a-half-pound torch — the pace that all torch runners must maintain, regardless of terrain.

An assistant professor of exercise and sport science and director of the Penn State International Dancers ensemble,

Ms. Hanley has been invited to participate in the International Olympic Academy as a lecturer, social meeting Academy or dance workshop coordinator nearly a dozen times since she was selected as a USA delegate in 1977.

Her trip is sponsored by the Department of Exercise and Sports Science in the College of Health and Human Development, the Office of International Programs and by Rapid Transit Sports in State College.

News in Brief

Comments, please

A special committee of the University Faculty Senate, charged last month with assessing and recommending changes to Penn State's general education program, wants to hear from the University community.

To encourage comment, the committee is holding time on the agenda of each of its meetings for an open forum. "We want this to be a very open process," **Robert Pangborn**, chair of the committee and associate dean of undergraduate studies in the College of Engineering, said. "We would like to hear views from as many members of the University community as are willing to share their thoughts."

The 25-member committee held its first meeting and received its charge Feb. 21, and held its second meeting March 13.

Upcoming meetings will be held March 27, April 8 and April 24 at the Nittany Lion Inn. All the meetings will run from 3-5 p.m., and the open forum portion will begin at 4 p.m.

Periodical abstracts

The University Libraries is pleased to announce that the full text of more than 2.4 million articles in more than 500 journals is now available electronically through Periodical Abstracts on LIAS (Library Information Access System). Users with access to LIAS are now able to read electronic versions of articles from any location, twenty-four hours a day.

Periodical Abstracts contains citations, abstracts and full text of articles from over 1,500 general interest journals. It covers arts, entertainment, health, law, public policy, sci-

ence and technology from 1986 to the present with weekly updates. The majority of full-text articles are from 1994 to present, and the number of articles in electronic text continue to grow.

To access the database, type **sel Perabs** at the LIAS prompt (>>>) and press enter. Access the database at the times given above from any computer in the Libraries and automatically be entered in our online contest to win a variety of gifts donated by UML, producers of the database.

Profile available

The Office of University Relations has published a new edition of *Penn State: A Profile*, an informational booklet about the University, its mission, academic achievements and the University Park Campus setting. Single copies of Profile may be obtained without cost from 301 Old Main, (814) 863-4512, or by e-mailing **Annette Struble** at als9@psu.edu. There is a small charge for large quantities.

Ben Franklin deadline

The Ben Franklin Technology Center of Central and Northern Pennsylvania has announced that the deadline for submissions to the Challenge Program is April 1.

A major change will occur in the fiscal cycle for the program this year. Beginning with the 1996-97 funding request, the project year will change from Sept. 1 through Aug. 31 to July 1 through June 30 to match the state's fiscal year. The current funding expires as contracted on Aug. 31.

For more information or to discuss a proposal, call the Ben Franklin Technology Center of Central and Northern Pennsylvania at (814) 863-4558.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Quality Expo features Comedy Theatre Team

Put away the control charts ... and learn about total quality in a whole new way. The "Quiet Riot" comedy team, brothers **Bill** and **David Mettler**, combine comedy, mime, storytelling, music and sound effects to examine personal empowerment, team building, cooperative problem solving, leadership and communication skills, and the strengths of diversity.

Quiet Riot will perform at 12:15 p.m. Thursday, April 11, in the Nittany Lion Inn Ballroom as part of Quality Expo '96.

For more information, please see the CQI Center home page at <http://www.psu.edu/president/cqi> or call the CQI Center at (814) 863-8721.

Teams in the classroom

A panel discussion on Monday, March 25, on "Using Teams in the Classroom" will feature: **Kathryn Danksy**, assistant professor, Health Policy and Administration; **Diane Emerson**, director, Instructional Development Programs; **Bob Melton**, associate professor, Aerospace Engineering; **Larry Spence**, co-director, Schreyer Institute for Innovation in Learning; and **Lenny Pollack**, manager, Human Resource Development Center (moderator).

This panel will address how the use of teams and process improvement strategies apply to the classroom environment. Fans will share the benefits and pitfalls of using teams in the classroom.

Where? 204 Hetzel Union Building

When? March 25, 3:30-5 p.m.

If you would like to attend this panel, please call (814) 863-8216 and ask to register for CQI 42. The panel is sponsored by the Instructional Development Program, the Schreyer Institute for Innovation in Learning, the CQI Center, and the HRDC.

For more information about Continuous Quality Improvement, please call **Louise Sandmeyer**, executive director of the CQI Center, at (814) 863-8721.

LECTURES

Workshop tactics will give immediate results

"What Color Is Your Brain?" an interactive workshop by **Sheila Glazov**, president of Visual Impact Planning, will be held at 7:30 p.m. Monday, March 25, in Room 108 Wartik on the University Park Campus. The workshop, presented by the Leonard Center for the Enhancement of Engineering Education, is free to the public.

Workshop participants will learn to recognize and understand different perspectives with this interactive process that can be immediately implemented professionally and personally to improve job performance; establish trust and rapport with others; improve communication skills with a new vocabulary; mediate and resolve conflict; build self-confidence and teamwork; enrich personal and professional relationships and discover, enhance and sustain their creative potential.



Sheila Glazov

Ms. Glazov has 25 years experience in education, business ownership, management and professional speaking. A graduate of Ohio State University, she has a degree in creative leadership from Disney University and is a graduate of the Creative Problem Solving Institute-General

Facilitation Program and the McNeilis Creative Planning Institute.

Ms. Glazov is an adjunct faculty member at William Rainey Harper College Career Transition Center and Institute for Supervisory & Management Development, an adjunct faculty member of the True Colors Institute, and guest instructor at Northwood University, Alden B. Dow Creativity Center and DePaul University Kellstadt Graduate School of Management.

Communications Law Institute planned for June

A Communications Law Institute will be held at The Penn State Scenic on Sunday, June 9, and Monday, June 10.

The program will bring together instructors of media law, First Amendment specialists, professional journalists and other communicators for a refresher on substantive law and a look at new ways to communicate this material.

Jane E. Kirtley, executive director, Reporters Committee for Freedom of the Press in Washington, D.C., will be the keynote speaker at Sunday night's dinner and will lead Monday's panel discussion on information access.

Other conference faculty members include: **Robert D. Richards**, associate professor of journalism and law and director of the Pennsylvania Center for the First Amendment in the College of Communications, Penn State; **Jeremy Cohen**, associate dean for undergraduate education in the College of Commu-

nications, Penn State; **Bruce D. Collins**, corporate vice president and general counsel, C-SPAN, Washington, D.C.; and **Rob Frieden**, associate professor of telecommunications, Penn State.

Also, **Samuel E. Klein**, a Philadelphia attorney who is a recognized authority on media law issues; **David Morgan**, New Media Consultant, New York City; **Patrick Parsons**, associate professor of communications, Penn State; **Mark Righter**, a State College attorney who handles intellectual property matters for Penn State; and **Theresa Vitzthum**, media law counsel at The Pennsylvania Newspaper Publishers Association, Harrisburg.

Program topics include: an update on libel/privacy issues; information access; cameras in the courtroom; emerging technologies; intellectual properties; and the future of the First Amendment.

Registration deadline is May 27. For information, call (814) 865-5120.

Lecturer's foundation has ties to University

When William C. Richardson, president and chief executive officer of the W.K. Kellogg Foundation, gives the 1996 John W. Oswald Lecture in Higher Education on Monday, March 25, he will be visiting an institution with ties to his own.

The W.K. Kellogg Foundation, established in 1930 to serve the health and education needs of youth in south-central Michigan, has grown to achieve national and international prominence, and today ranks among the world's largest private foundations.

While its areas of interest have evolved to meet changing needs, its primary goal remains "to help people help themselves through the practical application of knowledge and resources to improve the quality of life and that of future generations." Current areas of interest are health care, food systems and rural development, youth development and higher education, philanthropy and volunteerism, leadership, information systems, capitalizing on diversity and family, neighborhood and community development.

Penn State research in many of these areas has been supported in part by the Kellogg Foundation for more than 10 years, including three projects now in progress:

■ "Pathways from Poverty," a Northeast regional conference on rural poverty and follow-up support activity for professionals and community volunteers. Principal investigators are **Daryl K. Heasley**, professor and director of the Northeast Regional Center for Rural Development, and **Kenneth E. Martin**, associate director of the Northeast Center and director of the Pennsylvania Office of Rural Health.

■ "KEYSTONE 21 — Food Systems Professions Education," a national effort to develop educational strategies for professionals who will serve the food system in the 21st century. It is a partnership among Penn State, the Rodale Institute and Cheyney University, a historically black university with an urban focus, and is now beginning a five-year implementation phase to bring about change in food systems professional education. **Lamarine F. Hood**, professor of food science, is the principal investigator.

If you go

What: 1996 John W. Oswald Lecture in Higher Education, with speaker William C. Richardson, president and chief executive officer, W.K. Kellogg Foundation

When: Monday, March 25, 9:30 p.m.

Where: Palmer Lipson Auditorium, University Park Campus

Registration: Monday, March 25, 4:30 p.m., Palmer Museum lobby.

■ "Pennsylvania Family Community Leadership Program," a training program for Cooperative Extension agents and community volunteers who, in turn, teach leadership skills and ethical characteristics to citizens serving on local boards and authorities across the state. **Stanford M. Lembeck**, professor of agricultural economics and rural sociology, and **Deborah A. Gregory**, Huntingdon County Cooperative Extension agent, are principal investigators.

Other Penn State research and education projects funded by Kellogg include a waste characterization study and a national groundwater policy education program as well as research and courses on food, agriculture and society; the development of computer applications in agriculture and rural development; and research in communications and human development and family studies.

In addition, the Kellogg Foundation recently funded a Commission on the Future of State and Land Grant Universities composed of presidents from 20 universities, including Penn State President **Graham B. Spanier**.

Dr. Richardson will speak on "The Future of Higher Education" at 5:30 p.m. on March 25 in the Palmer Museum of Art Lipson Auditorium on the University Park Campus.

A reception will precede the lecture at 4:30 p.m. in the museum's Christoffers Lobby. Both the lecture and reception are open to the public. The series is named for the late John W. Oswald, who served as president of Penn State from 1970 to 1983.

Trend toward "political class" examined

Michael Berkman, associate professor of political science at Penn State, will discuss "The Rise of a Political Class? Former State Legislators in Congress" at noon Thursday, March 28, at the Penn State Downtown Center in Harrisburg.

Nearly half the members currently serving in the United States House of Representatives served previously in

their state legislatures. Dr. Berkman will discuss this trend toward a Congress of legislative professionals and will present documentation of its development and explore its causes and implications. A question-and-answer period will follow his talk.

For more information, contact the Downtown Center at (717) 783-0433.

More Lectures

Scientist's Chemerda talks touch on war-related issues

Freeman Dyson, widely regarded as one of the most eminent scientists of the 20th century, will give the 1996 Chemerda Lectures in Science from March 25 to 28 at the University Park Campus. Dr. Dyson is professor emeritus of physics at the Institute for Advanced Study in Princeton, N.J., and a theoretical physicist who has made many seminal contributions to elementary particle physics, statistical mechanics, and astrophysics.



Freeman Dyson

His lectures, which will take place in 119 Osmond Laboratory, are "Tolstoy's 'War and Peace' as a Guide to Recent History" at 8 p.m. Monday, March 25; "The Origins of Strategic Bombing" at 3:30 p.m. Tuesday, March 26; "Beginning and Ending of the Cold War" at 3:30 p.m. Wednesday, March 27; and "Nuclear Weapons in the Post-Soviet World" at 3:30 p.m. Thursday, March 28.

Dr. Dyson is perhaps best known for his work during the 1950s on quantum electrodynamics and renormalization theory, which played a key role in many of the major developments in the field of elementary particle physics during subsequent decades. His activities and interests cover a wide range of fields in addition to physics, extending from number theory to his work on the design of the Triga reactor and the Orion space

ship in the late 1950s.

He is the author of several books, including *Disturbing the Universe* (1979), an autobiography; *Weapons and Hope* (1984); *Origins of Life* (1985); *Infinite in All Directions* (1988), and *From Eros to Gaia* (1992). He also has written numerous popular scientific articles for magazines, in particular *Scientific American* and the *New Yorker*. For his books on science, he has received several awards including the National Books Critics Circle Award for Nonfiction in 1984, the Phi Beta Kappa Award in Science for *Infinite in All Directions* in 1988, and Britannica Award for Dissemination of Knowledge in 1990.

In recognition of his work, Dr. Dyson has received many other awards and distinctions.

He holds honorary degrees from twelve universities and colleges and is a Honorary Fellow of Trinity College in Cambridge, England.

The Chemerda Lectures in Science are named in honor of John M. Chemerda, a member of the Penn State Class of 1935.

The lectures are supported by a grant from Merck & Co. Inc., made in connection with an award conferred on Dr. Chemerda by Merck's board of directors.

Medieval Slavic world topic of conference

The cultural, historical, social, folk, religious and political development of the medieval Slavic world is the subject of this year's Medieval Studies Conference at University Park March 29 and 30.

Speakers at the conference, "From Moravia to Moscow: The Medieval Slavic World," will examine how elements and ideas from that world have shaped the character and map of present-day Europe.

Professor Paul Bouskevitch of Yale University will speak on "The Mysteries of National Consciousness in Late Medieval Russia." His discussion on the gathering of the Russian lands from the medieval period into the Russian Empire will shed light on the current ethnic problems in Chechnya and other areas at the edges of Russia.

Professor John V.A. Fine of the University of Michigan will discuss "Did Ethnicity Exist Among the Medieval Balkan Slavs?" which also will shed light on current ethnic and political problems in the Balkans.

Other speakers and their topics include: Natalie Kononenko of the University of Virginia, "Why the Blind Should Sing," on the tradition of the blind Ukrainian minstrel tradition; Eve Levin of Ohio State, "Religious Cultures Among the Orthodox Slavs: The Case of Faith Healing"; William F. Ryan of the University of London Warburg Institute, "Ancient Demons and Slavic Magic"; Ihor Sevcenko of Harvard University, "A New Greek Source Concerning the Nikon Affair," which was a clash between secular and sacred powers in late medieval Russia; William C. Brumfield of Tulane University, "The Iconography

of Medieval Russian Architecture," and Edward V. Williams of Penn State, "Bronze Choirs in Medieval Russia: Bells and Bell Ringing in Kievan Rus' and Muscovy."

The annual Medieval Banquet will be held Friday evening, March 29, and will feature period Slavic cuisine. The Penn State International Dance Ensemble, under the direction of Elizabeth Hanley, will perform traditional Slavic dances and a blind Ukrainian bard, Pavlo Suprun, will play selections from the *Ukrainian Lute*. A medieval luncheon will be held Friday, March 30, in the auditorium, Room 104 Keller Conference Center.

Pavlo Suprun will give a free public performance of traditional Slavic music at 2 p.m. Saturday, March 30, in the auditorium, Room 104 Keller Conference Center.

Conference registration is \$25, which is waived for all full-time students, Penn State faculty, school teachers and senior citizens. Advanced registration is requested. Please contact Margo Stavros for reservations at (814) 863-7484, (814) 863-7840 (fax) or by e-mail at mes14@psu.edu.

Organized by the Center for Medieval Studies and the Department of Slavic and East European Languages, the conference is sponsored by the College of the Liberal Arts, the Institute for the Arts and Humanistic Studies, the College of Arts and Architecture and the Departments of Art History, Comparative Literature, History, and Slavic and East European Languages, with generous support from AT&T and the Woskob Fund for Ukrainian Studies at Penn State.

Seminars to look at records, information management

A series of one-hour seminars open to all faculty and staff, which detail policies and procedures affecting records and information management at the University, will be held on the University Park Campus from March 29 through April 8 to commemorate National Records and Information Management Day (April 2).

The University Records Management Program is offering the following seminars, which also include tips on managing files in individual offices and applying files management techniques to computers:

Friday, March 29

■ 9-10 a.m., University Libraries, C5 Pattee Library

Monday, April 1

■ 9-10 a.m., College of Education, 221 Chambers Building

■ noon-1 p.m., College of Agricultural Sciences, 324 Agricultural Sciences & Industry Building

Tuesday, April 2

■ 9-10 a.m., College of Arts &

Architecture, 128 Arts Building

■ 2-3 p.m., College of Engineering, 256 Hammond Building

Wednesday, April 3

■ 10:30-11:30 a.m., College of the Liberal Arts, 124 Sparks Building

■ 4-5 p.m., College of Health and Human Development, 102 HHD East

Thursday, April 4

■ 10-11 a.m., Smeal College of Business Administration, 807A Business Administration Building

■ 1-2 p.m., College of Communications, 101 Carnegie Building

Friday, April 5

■ 9-10 a.m., Eberly College of Science, 517A Classroom Building

■ 3-4 p.m., College of Earth & Mineral Sciences, 26 Hosler Building

Monday, April 8

■ 10-11 a.m., Alumni Lounge, First Floor, Old Main

For more information, call Jackie Esposito at (814) 865-7931 or e-mail jre@psu.ia.psu.edu.

Ancient Christians, Pagans discussed

"Christians and Pagans in Ancient Palestine" will be discussed by Professor John F. Wilson of Pepperdine University at 8 p.m. Monday, March 25, in 101 Kern Building on the University Park Campus.

Dr. Wilson teaches religious studies and has worked at archaeological sites in Capernaum and

Jerusalem. He currently is directing the expedition at Banias.

The lecture is sponsored by the Central Pennsylvania Society of the Archaeological Institute of America, with additional support from Penn State's Institute of Arts and Humanistic Studies and the Colleges of Liberal Arts and Arts and Architecture.

Forum focus is ethics in business

"Emerging Ethical Issues in Business and Government," a noon forum set for April 4 at the Penn State Downtown Center in Harrisburg, will look at ethical issues and dilemmas facing legislators, public figures and those in the business world.

Sponsored by the Penn State Harrisburg Center for Ethics, the presentation will feature Kurt Parkum, associate professor of management at Penn State Harrisburg, who will review current literature about the ethical issues arising in

business practice and the approaches taken to deal with these conflicts;

Jeremy Plant, professor of public policy and administration at Penn State Harrisburg, who will examine ethical dilemmas facing legislators and public administration figures; and Glen Mazis, associate professor of humanities and philosophy, Penn State Harrisburg, who will comment on the two presenters' presentations and highlight how contemporary issues echo traditional ethical dilemmas.

For registration, call the Downtown Center at (717) 783-0433.

More Lectures

Bracken Fellow to conclude lecture

Darrel Morrison, professor of landscape architecture, University of Georgia School of Environmental Design and the 1995-96 Bracken Fellow, will conclude this year's John R. Bracken Lecture Series. The lecture "Arcadia II: Where Design and Nature Meet" is scheduled for 8 p.m. Tuesday, March 26, in 102 Classroom Building on the University Park Campus.

The Bracken Lecture Series is sponsored by the Department of Landscape Architecture and the College of Arts and Architecture.

Professor Morrison is nationally renowned as an expert on ecologically-sensitive landscape design and use of indigenous plant materials. From 1983-'92, he was dean of the School of Environmental Design at the University of Georgia. He has held positions at the University of Wisconsin, the District of Columbia Department of



Darrel Morrison

Highways and Traffic, T.D. Donovan and Associates, a firm in Silver Spring, Md., and at the National Capital Park and Planning Commission. His work has taken him throughout the world, including a 1969 expedition through six countries in Europe to observe and photograph examples of historic and contemporary landscape architectural works.

His numerous awards include recognition from the National Council of Education in Landscape Architecture's Outstanding Educator Award and the Wisconsin Chapter American Society of Landscape Architects award for dedicated service to the profession. He has received numerous additional awards for excellence in teaching, both from the University of Wisconsin and from the University of Georgia.

The lecture is free to the public.

Learning environments to be demonstrated and discussed

Jack Wilson of Rensselaer Polytechnic Institute will demonstrate and discuss innovative learning environments at 3 p.m. Wednesday, April 3, in Room 101 Agricultural Sciences Building on the University Park Campus.

His presentation, "Re-engineering Undergraduate Education: Using Technology to Create New Learning Environments for Students," is sponsored by the Center for Academic Computing, the Schreyer Institute for Innovation in Learning, the Leonard Center for the Enhancement of Excellence in Engineering Education, the College of Education, and the Center for Learning and Academic Technology.

Dr. Wilson, dean of undergraduate and continuing education and professor of physics, will discuss Rensselaer's introduction of a new model for the large enrollment undergraduate courses that have been known as the Studio Model. The studio alternative combines lecture/recitation/lab while de-emphasizing the lecture and increasing emphasis on hands-on laboratory work. Promoting a team-oriented approach, a faculty member assisted by a graduate student and one or more undergraduate

assistants work together in a setting that encourages natural mentoring of the undergraduate and graduate students.

Dr. Wilson was the recipient of the 1995 Theodore Hesburgh Award for Innovation in Undergraduate Education from TIAA/CRF. He also received the 1995 Boeing Outstanding Educator Award and the 1995 Distinguished Service Citation from the American Association of Physics Teachers.

He has published many articles and has been invited to speak at numerous national and international conferences on topics dealing with learning with technology. His presentations also have been the focus of several television and teleconference broadcasts.

To register via e-mail or phone, contact Jean Cowher at ajc@psu.edu or (814) 863-4356. PSUVM users should use the command seminars. Be sure to include the seminar number (99904), your name, title, e-mail address, university address, and phone number. There is no cost. For more information, contact Glenn Johnson, 226 Computer Building, University Park, PA, 16802, phone: (814) 865-0805, e-mail: gjl100@psu.edu.

Forum shares ideas on technology in teaching

Linda Harasim, associate professor, School of Communication, Simon Fraser University, will be the keynote speaker for the fourth annual Teaching and Learning Symposium to be held on Saturday, March 30, from 9 a.m. to 4:30 p.m. in the Classroom Building at the University Park Campus.

The symposium, a practical forum for sharing ideas and techniques for using technologies to enhance and transform teaching and learning, will feature active, collaborative, engaging learning experiences. It is sponsored by the Center for Academic Computing, the Schreyer Institute for Innovation in Learning, the Leonard Center for Excellence in Engineering, the College of Education, and the Center for Learning and Academic Technology.

Dr. Harasim's keynote demonstration/discussion, "Creating a Community of Learners Beyond the Classroom: Using Computer Networks to Expand and Enhance Education," will offer innovative technology-based teaching methods which stress learning beyond the classroom. Dr. Harasim's collaborative approach uses computer conferencing as the learning environment. She gives particular attention to on-line group processes and tasks. She intentionally structures computer conferences, using individual, paired, and small group tasks and sub-group and whole group discussions.

Dr. Harasim's expertise in the use of computer networking in education spans over fifteen years. She currently is Leader and CEO of the Tele-Learning Research Network which



Linda Harasim

includes over 130 researchers. She was the recipient of a 1995 TeleLearning Network of Centers of Excellence Award. In addition, she is the author of numerous books and articles.

The symposium also will feature fifteen concurrent sessions during which University faculty members will demonstrate how they and their students use technologies for

teaching and learning. Topics include: "Active, Collaborative Learning" (in Science, in Engineering, in Humanities, and in Business), "Designing and Implementing World Wide Web Pages for Class Use," "New Technologies for Teaching and Learning," "Penn State's Multimedia Resources Server," and "Project Vision from Both Sides of the Virtual Desk."

Attendance is free for all Penn State faculty, staff, and graduate students and \$75 for attendees from outside the University. Same-day registration will begin at 8:30 a.m. in the front lobby of the Classroom Building. Coffee and donuts will be offered at that time. Lunch will be available for \$5.25.

Pre-registration is requested. Send e-mail to ajc@psuvm.psu.edu or call Jean Cowher at (814) 863-4356. Be sure to include your name, title, university address, social security number and phone number. If you have a PSUVM account, you can register on-line by using the command seminars. Please use the seminar number 07181.

For more information, contact Karen Peters at (814) 863-7763 or send e-mail to kmp138@psu.edu.

Asia-Pacific Task Force to hold workshop on April 1

Penn State's Asia-Pacific Task Force is organizing a workshop on "Asia-Pacific Studies Centers: Models and Issues" to be held April 1 in Weaver Building on the University Park Campus.

Coordinating the workshop is the University's Australia-New Zealand Studies Center which formed the task force at the behest of the Office of International Programs to assess Penn State research and teaching activities in the Pacific Rim region. At the end of this academic year, the task force will present a report to the Office of International Programs.

The workshop will feature presentations by Jack Williams, director of Michigan State's Asia Studies Center, and George T. Yu, director of the University of Illinois' Center for East Asian and Pacific Studies. Also partic-

ipating to discuss models of academic research organization will be Robert Friedman, emeritus professor of political science; Renee Friedman, senior policy associate; and Roger Geiger, professor of higher education. Chairing the sessions will be John M. Keller, associate director of the Australia-New Zealand Studies Center.

In December, the task force distributed a survey to Penn State faculty regarding their Asian-Pacific research and teaching activities. The findings from the survey, which elicited over 130 responses, will be presented at the workshop.

For more information about the conference call the Australia-New Zealand Studies Center at (814) 863-1603; fax them at (814) 865-3336; or e-mail jmk138@psu.edu or pac9@psu.edu.

Research

Intercom
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He likes it when people walk all over his life's work

By JOHN WALL

The College of Agricultural Sciences

For most retired college professors, the idea of having millions of people walking all over a lifetime's worth of research is enough to cause an acute attack of apoplexy. However, for **Joseph Duich**, professor emeritus of turfgrass science in the College of Agricultural Sciences, who retired in 1991, those footfalls mean his work has taken root in the golfing world.

In fact, whenever a golfer — be it Jack Nicklaus or a weekend duffer — sets foot on a putting green, it's a safe bet that he or she is staring down onto Dr. Duich's grassroots legacy while preparing to putt.

And, to extend the golfing metaphor even further, Dr. Duich has just released seven new varieties of creeping bentgrass and a new variety of Kentucky bluegrass at a time when most retirees are spending the bulk of their day playing the links, not improving them.

Dr. Duich (pronounced dew-ich) has bred six bentgrass types for use on the nation's putting greens. The other bentgrass, called Seaside 2, is used on areas exposed to excess salt, such as coastal golf courses, or extremely dry areas, such as Arizona. The other bentgrass varieties, identified as Penn A1, A2, A4, G1, G2 and G6, are heat-tolerant strains that can stand up to the extremely low mowing heights — commonly 5/32 or 1/8 of an inch — used on many top golf courses. He also released Pennpro, a Kentucky bluegrass variety designed to be a component in mixtures used on athletic fields.

"Most creeping bentgrasses have growth habits like human hair. They tend to lie down, giving the green a characteristic called grain, which can cause a putt ball to veer," the 67-year-old turfgrass expert said. "The new varieties have a growth habit like a crewcut. They are very dense and grow straight up."

Breeding better bentgrasses is nothing new for Dr. Duich, who began his University research career in 1952. Indeed, three of Penn State's bentgrass releases, called Penncross, Pennagle and Pennlinks, are used on 90 percent of golf courses around the world.

"In the golf world the name Penn State and the Penn varieties of grasses have become synonymous



Joseph Duich, professor emeritus of turfgrass science, developed a variety of grasses suited for golf courses.

with quality," Thomas Watschke, professor of turfgrass science, said. "The work of Joe Duich and others has allowed us to say the sun never sets on a Penn State turfgrass variety."

Dr. Duich is one of several Penn State pioneers in grass breeding, which involves developing new turfgrass varieties by crossing them with other grasses or developing existing varieties into commercial products. In 1928, H. Burton Musser started the Penn State turfgrass program with the goal of developing superior grasses for golf courses and parks. Dr. Musser, working in the 1950s with then-graduate student Joe Duich, developed Penncross, a creeping bentgrass seeded variety still in use today on many golf greens. Before Penncross, improved bentgrasses were not propagated from seed.

When Dr. Musser retired in 1959, Dr. Duich continued Penn State's turfgrass breeding traditions. One of his first breakthroughs came when he developed Pennfine, a variety of perennial ryegrass with desirable turfgrass properties. Before Dr. Duich's work, ryegrass was used for livestock forage. Pennfine was among the first ryegrass varieties developed for turf. Today it is a component in seed mixtures because of its ability to germinate and establish quickly. Its texture and strength make it perfect for home lawns and athletic fields. The turf at Beaver Stadium contains three types of bluegrass and Pennfine ryegrass.

Dr. Duich developed Pennagle, a bentgrass variety, in the 1970s. Although never used much on putting greens, Pennagle is widely used on fairways and tees. Pennlinks was released by Dr. Duich in the 1980s to great acclaim in the golf industry.

Turfgrass breeding is a solitary sort of calling, as its practitioners tend to be ever-vigilant for spots of unique grass. "We're always looking down," Dr. Duich said.

All the breeding plants for Dr. Duich's new bentgrass varieties came from Georgia's Augusta Golf Club, home of the Master's Tournament.

The royalties from Dr. Duich's turfgrass varieties average more than \$200,000 per year, and these funds are distributed within the Department of Agronomy to support the turfgrass program.

Dr. Duich believes his most lasting contribution to the University has been the development of the college's two-year technical program in golf course management. The program, called "the winter course" in the golf industry, has placed Penn State graduates as golf course superintendents at such courses as Oakmont in Pittsburgh; Cypress Point in Monterey, Calif.; and Augusta National Golf Club.

Another legacy Dr. Duich left Penn State can be seen by taking a short detour off University Drive to the Joseph Valentine Turfgrass Research Center. There, spread out over 10 acres, is an emerald carpet of grass types, where agronomists grow and evaluate turf varieties for disease, drought tolerance, resistance to pests and diseases, drought tolerance, mowability and other characteristics. Some of the grasses tested are developed by Penn State researchers; other varieties have been bred by seed companies or other universities.

New protein kills brain tumor cells in Hershey laboratory experiments

By SCOTT TURNER

Public Information

Scientists have created a new protein that kills human brain tumor cells at extremely low concentrations.

In laboratory experiments, cells from several types of human brain cancers were exposed to minute amounts of the new protein. All died within hours of treatment.

The finding may be an important step toward a treatment for brain cancer. Most brain cancers in adults are incurable, and many brain tumors are inoperable.

The new substance has the scientific name hIL13-PE38QQR. It is composed of a protein found in the body, named interleukin 13 (IL 13), and a genetically engineered toxic bacterial protein, called Pseudomonas exotoxin A.

Dr. Waldemar Debinski and colleagues were the first to describe how IL 13 penetrates a range of



brain cancer cells. These cells are covered by tens of thousands of receptor sites that act as open doors for IL 13, a substance in humans that promotes growth of white blood cells.

Dr. Debinski and co-researchers fused IL 13 with Pseudomonas exotoxin A to create a new protein that would enter and kill a brain tumor cell.

In laboratory experiments, receptor sites on a range of brain cancer cells "opened up" to receive the new protein, hIL13-PE38QQR, also taking in the compound's toxic bacterial portion, which killed the cells within hours. The new protein did not harm normal brain cells. Dr. Debinski said.

The findings were described in the *Journal of Biological Chemistry* and in the "Advances in Brief" section of the publication *Clinical Cancer Research*. They were also presented at the annual meeting of

the Society for Biological Therapy of Cancer.

Dr. Debinski directs brain tumor research in the Division of Neurosurgery, College of Medicine, at The Hershey Medical Center. He said the successful ability to target the tens of thousands of receptors on a range of cancer cells for delivery of small amounts of a toxin opens a new field in brain cancer treatment.

"In experimental evaluations, just one to two molecules of the toxin are enough to kill a cell," he said. "We think of this protein as a candidate drug that very specifically targets brain cancers."

Anti-cancer drugs now rely on large doses to either inhibit growth of cancer cells or kill those cells. Those drugs are usually intensely toxic to normal cells of the body and have little effect on brain tumors.

Dr. Debinski and colleagues are currently testing their new protein in pre-clinical evaluations. They hope to begin using it in clinical trials by the end of the year.

WEB BROWSER

By DOUG STANFIELD
technology editor

In the hope that we're not running the gardening theme in this column into the ... well, into the ground, here's a tip on a site at USC. The "Tele-Garden" lets Web users control a robot to plant, water and in some cases, watch their plants be murdered by the blind brutishness of others.

Cybervisitors signing on at the installation's electronic address — <http://www.usc.edu/dept/garden/> — find themselves at the controls of a robotic arm poised above a large, circular planter box filled with soil and illuminated by full-spectrum "grow lights." Anyone can tour this garden site and see the herbs, vegetables and flowering plants growing there.

No rules apply. There is nothing to prevent one member of the cooperative from planting in the same space as another, from over-watering the plants or even crushing them with the robotic arm.

"We expect such things to happen," Ken Goldberg of the USC School of Engineering said.

Mr. Goldberg said the garden is a living model of small-planet social interactions. "We deliberately left the garden's future up to its 'gardeners.'"

It's worth a look if these things interest you. But hurry. Word is that the project will be shut down this June.

The address of University Relations' home page has changed. The new URL is <http://www.usc.edu/psu>.

Because of the change, Intercom's Web address has also changed. The new Intercom URL is <http://www.usc.edu/psu/INTERCOM/home.html>.

We will maintain the old address for a few weeks, but you should update any bookmarks you have as soon as possible.

You can e-mail Doug Stanfield at dws9@psu.edu

Carpoolers

Carpool with shared driving desired from State College to Williamsport, approximate working hours 9-5. Please call (717) 321-4241.

Riders wanted for vanpool from Phillipsburg area to University Park. Work hours are 7:30 a.m.-4:30 p.m. Monday through Friday. Call Sharon at 865-1255 or 342-7296 (after 5:30 p.m.).



New mom

It's lambing time at the University's sheep barns on the University Park Campus. The University has about 35 purebred Polled Dorsets lambing this spring, with about 50 lambs born so far. Soon, the barn's 20 crossbred ewes will be lambing. The ewes are used for educational purposes in the Department of Dairy and Animal Science in the College of Agricultural Sciences, as well as for extension work. The barn, located on Orchard Road off the Park Avenue Extension near Centre Community Hospital, is open to visitors seven days a week from 8 a.m. to 5 p.m. While there are no guided tours, visitors may feel free to ask questions.

Photo: Greg Greco

14 to be honored with MOSAIC Awards

The Academic Assistance Programs and the Educational Opportunity Programs have established the MOSAIC Award, to recognize students who have overcome physical, emotional or learning disabilities and other obstacles to become successful college students.

"We are very proud of their perseverance," Howard E. Wray III,

program director and Associate Dean for Undergraduate Education, said. "We have instituted this new award for those successful students who deserve a pat on the back, a sincere thanks from their peers, teachers and counselors."

MOSAIC stands for a student who is highly motivated, has overcome obstacles, provided service to

family, community and/or school organizations, achieved academic success, is involved in their particular program and is committed to their educational goals.

The awards will be presented to 14 students during the Academic Assistance Programs 1996 Spring Conference Friday, March 22, and Saturday, March 23.



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Opens Friday

Travis DeCastro, assistant professor of Theatre Arts, goes over construction blueprints for the set of "She Loves Me." The production opens Friday, March 29, at the Playhouse Theatre on the University Park Campus.

Photo: Greg Grieco

University lauded in Middle States evaluation report

The Commission on Higher Education of the Middle States Association of Colleges and Schools has not only reaffirmed Penn State's accreditation, it has submitted an evaluation report that is highly congratulatory in terms of the quality of a Penn State education.

The just-released report, the result of the October 1995 reaccreditation process, made special note of the high levels of student satisfaction. It observed that Penn State students in general are proud of their school and speak authoritatively of the quality of Penn State educational programs. It also noted the overall highly effective management of the University through strategic planning and quality improvement initiatives, and gave Penn State's strategic planning the credit for many of the strides made since the last reaccreditation in 1986.

The report, the result of the October 1995 reaccreditation process, made special note of the high levels of student satisfaction.

The Middle States evaluation report by faculty and administrators from peer institutions contains a number of commendations, suggestions and a few cautions. Looking at educational quality, the team examined nine critical areas from curriculum reform to the use of technology and outreach education. The findings follow:

■ On curriculum reform, the report applauded "the many imaginative academic programs," noting that Penn State "is piloting new approaches to the integration of curriculum

elements to take 46 credits of general education courses, was approved in 1985 and implemented in 1988. While the Senate has taken several actions associated with general education since then, and while both the University Future Committee and a 1991 Task Force on Undergraduate Education have addressed general education, since 1988 there has been no comprehensive review of the pro-

See "Overhaul" on page 3

See "Middle States" on page 4

Does general education need an overhaul?

By ALAN JANESCH
Public Information

It would probably be tough to find a University faculty member who differs with the goals of Penn State's general education program, which are to help students understand and appreciate the multifaceted nature of knowledge and to develop their intellectual curiosity, strengthen their ability to think, and deepen their sense of aesthetic appreciation.

No disagreements there — although there are varying opinions about the efficacy of the current program. Overall, however, faculty members think it may be time for an overhaul of general education at Penn State, and that's why the University Faculty Senate last month created a special committee to assess and recommend changes to the program.

The current program, which requires baccalaureate degree stu-

Research

A University researcher is working hard to preserve biodiversity in the Korean Demilitarized Zone. K.C. Kim would like to turn the DMZ into a series of nature preserves. For the complete story, please see page 19.



Special Awards Section

Recognition for achievements will be given at 2 p.m. Sunday, March 31, at the Academic Awards Convocation. For an advance on who's receiving an award, see pages 9-16.

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Inside

DIVERSITY

Guide dog featured on Deaf Awareness Day

Seeing eye dogs, carefully guiding and protecting their visually impaired human companions or masters, are an often noticed part of society. But you don't often see another working dog — a hearing guide dog for the deaf and hard-of-hearing.

Today, however, in celebration of the Penn State Sign Language Club's Annual Deaf Awareness Day, an experienced hearing guide dog named Corky will demonstrate its extensive skills at the evening activities beginning at 5 p.m. in Kern Auditorium on the University Park Campus.

The theme of this year's Deaf Awareness Day, which promotes deaf culture and language on campus, is "Changing Perspectives of Deafness." The day's activities began at 1 p.m. with the Deaf Services Fair.

Harlan Lane, renowned authority on deaf culture, is the guest speaker. He will be discussing the changing view of deafness from disability to culture.

Also speaking are Lori Hutchison on diversity and deafness, and Colleen Conway on the Pennsylvania Relay Center which connects deaf people with a text telephone or TTY, with others, who don't require a TTY to communicate.

"Penn State has 45 students with hearing loss as their primary disability," Faith Drewry, interpreter for the Office of Disability Services on campus, said. For students and employees who are hard-of-hearing, the Speech and Hearing Clinic in Moore Building provides speech therapy and hearing evaluations. Visual alarms like blinking lights can be requested for residence halls or offices and are attached to the fire alarm. Amplified telephone receivers or TTYs can also be installed in residence halls and are located in various buildings on campus.

For more information on the events, contact Ann Sidone at (814) 863-2282, voice and TTY.

Women's Studies Program schedules three events

The Women's Studies Program has scheduled the following three events on the University Park Campus for April. All members of the community may attend:

■ Thursday, April 11, noon to 1 p.m., 12 Sparks Building: Women's Studies Brown-Bag Lunch Film Series. "Dear Lisa: A Letter to My Sister" speaks to women about being female in today's world, covering such topics as childhood play, relationships, careers, motherhood, body image, sexual assault and self-esteem.

■ Tuesday, April 16, noon to 1:30 p.m., 12 Sparks Building: Women's

Studies Faculty Brown-Bag Lunch Discussion Series. Speaker: Susan Squier, Brill Professor, English and women's studies, talks about "Feminism, Postmodernism and Science."

■ Thursday, April 18, 2:30 p.m., location to be announced: Women's Studies Feminist Scholars Series. Speaker: Sue Rosser will discuss "The Relationship Between Women's Studies and Women in the Sciences and Engineering Programs." Co-sponsored by the Women's Studies Program, the WISE Institute and a grant from the Equal Opportunity Planning Commission.



1818 Frederick Douglass 1895

Exhibition

This linocut of Frederick Douglass, abolitionist and orator, is part of the exhibit "Free At Last: The Life and Times of Frederick Douglass," by artist Stephen Alcorn. The exhibit includes more than 70 original linocuts of Civil War-era notables such as Abraham Lincoln, Ulysses Grant, Harriet Beecher Stowe and John Brown. The exhibition runs through April 5 at the Paul Robeson Cultural Center Gallery on the University Park Campus. Exhibit hours are 8 a.m. to 10 p.m. Monday through Friday; 10 a.m. to 4 p.m. Saturday; and 1 to 4 p.m. Sunday.



BOOK SHELF

Kathryn E. Hood, associate professor of human development, is senior editor of *Behavioral Development: Concepts of Approach/Withdrawal and Integrative Levels*.

The book results from the Fifth T. C. Schneirla Conference, held at Penn State in November 1989. Dr. Schneirla was a leading theoretician in comparative psychology. Contributors to the volume evaluated the usefulness of his approach/withdrawal concept (first formulated 30 years ago) for understanding behavioral development.

Chapters focus on such topics as biochemical and neural processes involved in approach/withdrawal, the role of A/W in social behavior, individual differences in A/W, and the concept of levels of integration in A/W theory.

Dr. Hood also contributed a chapter addressing contemporary theoretical issues related to A/W theory and discussing the possible interpretations of A/W theory in relation to experimental findings, including her own work with aggressive

behavior in mice. Cynthia Stifter, associate professor of human development, contributed a chapter on approach/withdrawal processes in infancy.

The book is published by Garland Publishing.

If you haven't read "Paradise Lost" since high school, you probably think of John Milton as a boring, stuffy old poet who used old-fashioned, hard-to-understand language and religious and classical allusions you didn't recognize.

But in her book *Historicizing Milton*, Laura Lunger Knoppers, an associate professor of English, says that the concept of Milton as a political radical has been making a comeback in recent years. Milton, she says, used his poetry and prose to respond directly to his political environment,

— specifically, that is, to undercut the monarchy in Restoration England.

"Throughout all his poetry and prose, he continually expresses a very strong concern for individual liberty, yet he defines that liberty in certain ways," Dr. Knoppers said. "In some of his prose, he even goes so far as to say that if people aren't wise enough to choose the kind of freedom he has in mind, then they have to be forced into it."

The book, published by the University of Georgia Press, 1994, points to three major poems of Milton's — "Paradise Lost," "Paradise Regained" and "Samson Agonistes" — as "oppositional and iconoclastic." She argues that Milton used the authority of his art to make pointed, anti-royalist political commentary. The poems, replete with Biblical and classical references, were the epitome of high art.

Overhaul

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gram, and a planned assessment component was never implemented.

One of the major questions for the 25-member special committee is how to build assessment of the program into the program itself, so that it becomes a continuous part of the process.

"What we'd like to see," Robert Pangborn, the committee's chair and associate dean of undergraduate studies in the College of Engineering, said "is a kind of living, dynamically changing general education program that reflects what's going on in the world around us."

With three full committee meetings already under its belt, the committee is already well into reviewing what general education is right now and exploring what it might be in the future.

The required 46 credits cover a broad spectrum to meet the definition of general education outlined by the University. The courses chosen must include 15 credits in communication and math skills, four in health sciences and physical education, nine in the natural sciences, six in the arts, six in the humanities and six in the social and behavioral sciences.

What do students think about these requirements? Some view them positively, faculty members believe, as a welcome exposure to many disciplines. But others, they acknowledge, see general education only as a list of courses they have to get out of the way before they can get into the really interesting work of their majors.

To address those divergent views, the committee is asking many questions that focus on students. For instance, the committee wants to know whether the students' current choices help most of them see the relevance of general education to their lives, and whether they find it challenging and exciting.

The committee is also asking what general education is supposed to do for students, and also how "general" is general education.

At present, the committee hasn't developed any definitive answers. But it is gathering the information and holding the serious discussions. If the committee does end up making recommendations for change, it will need to support its recommendations with convincing data, find models that are appropriate for all Penn State locations, and limit its recommendations to changes that are both needed and financially feasible.

In addition to the student-focused questions, the committee



Expanding her mind

How effective is the current general education program in helping undergraduates broaden their view of the world? The University Faculty Senate is investigating the question.

Special committee on general education meeting schedule

■ Monday, April 8, 3-5 p.m.,
Nittany Lion Inn

■ Wednesday, April 24, 3-5 p.m.,
Nittany Lion Inn

■ The open forum portion of each meeting will begin at 4 p.m.

■ Work on this project will continue during the summer and fall semesters, with recommendations to the Senate expected in late 1996 or early 1997.

also has identified many other interesting issues, such as:

■ What about the general education program is unique to Penn State? If nothing is, should it be made so or shouldn't it?

■ How should general education prepare students for the 21st century?

■ How can you encourage interdisciplinary structures or mechanisms for integrating skills across the curriculum while maintaining the knowledge, perspectives and skills that emerge from or relate to the separate disciplines?

■ Does one size fit all?

■ How do you measure success in delivering general education?

The committee's process for addressing these and other issues centers on five full committee meetings and four meetings of each of its two subcommittees.

Dr. Pangborn, the committee chair, has emphasized that the committee's review and analysis of the current program "will be a very open process." At each of its meetings (see schedule), the committee is holding time on its agenda for an open forum and inviting comment from the University community.

The committee acknowledges that its work involves both academic and political challenges. Scott Kretchmar, chair-elect of the Senate, said some faculty members "think that general education is doing its job right now. Others aren't sure, but they don't want to make any move until they're convinced that some aspect of general education is broken. Still others take a more cynical approach and doubt that reformations of general education amount to anything more than a reshuffling of the curricular deck."

One who believes that change is needed is University President Graham B. Spanier, who has told the committee that general education ought to provide a unique "baccalaureate core curriculum" that

prepares graduates for the 21st century. Dr. Spanier suggested the committee consider devising a baccalaureate core curriculum that emphasizes and integrates the most important elements of a Penn State education and gives all graduates a well-developed background. "If done properly," he said, "the current level of 46 credits may not be required."

Dr. Spanier also recommended offering some upper-level general education courses, perhaps even some "capstone" courses in the senior year that represent the culmination of other concepts that have been explored in previous course.

"We ought not to emphasize that general education is just something to get out of the way in the first two years," he said.

Dr. Spanier's other suggestions included:

■ Integrating writing across the curriculum, possibly requiring all courses to have a writing intensive component.

■ Emphasizing internationalization.

■ Considering whether Penn State should abandon the old requirement of physical education activity courses and substitute for it a fitness requirement where students learn about lifelong health.

Academic success doesn't depend on age

Academic success stems from a commitment to learning and depends on self-discipline and life management skills — not age.

These are the findings of a recent study of Penn State students conducted by the Center for Adult Learner Services in cooperation with the registrar's office. Study results indicate that adult learners at Penn State — those who are 24 years or older, veterans, or those who have returned to Penn State after an absence of at least four years — are overcoming the challenges that traditional-aged students who enter college directly from high school don't usually encounter.

Such challenges include readjusting to a learning environment that may be vastly different from their earlier days at school, relearning study habits and often juggling real-life responsibilities as well.

These challenges often weigh heavily on adult learners and can sometimes be reinforced by faculty members who may doubt the academic ability or academic commitment of adult students.

"People going back to school after long absences have to learn to perform a challenging balancing

Perhaps the most significant finding of the study is the fact that adult learners, on the whole, earn grades almost a full grade point higher than their younger counterparts. In addition, female adult learners are the highest academic achievers at Penn State.

Findings of adult learner study

act," Charlene Harrison, director of the center, said. "They must learn how to manage the responsibilities of home, relationships, employment, community service and study."

Yet the study's findings clearly indicate that non-traditional students are indeed overcoming such obstacles, while at the same time earning a spot among the University's academic elite.

Perhaps the most significant finding of the study is the fact that adult learners, on the whole, earn grades almost a full grade point higher than their younger counterparts. In addition, female adult learners are the highest academic achievers at Penn State.

But these positive findings are not only significant for nontraditional students, but for the University as a whole.

As part of a current trend in which college populations across the country are growing older, adult learners at Penn State have come to represent a special niche in American higher education.

For example, at some of Penn State's 23 campuses, more than 30 percent of the student body is made up of adult learners.

Overall, 9 percent of University Park undergraduates and 19 percent of all Penn State undergraduates are 24 years or older.

Ms. Harrison is pleased with the survey results and said they help reinforce Penn State's commitment to lifelong learning.

Applications for C&DE internship program sought

Applications are being accepted for the 1996-97 Continuing and Distance Education Internship Program. The program is open to all C&DE staff members, field staff, and faculty and staff members throughout the University who have been actively and directly involved in continuing education and/or distance education for a minimum of two years. High priority will be given to applicants who focus their internship on Continuing and Distance Education's diversity plan goals.

Up to six internships, each one week in length, will be awarded for the 1996-97 academic year. The internships will provide participants with an enhanced understanding of Continuing and Distance Education and its relationship to various parts of the University, and a broader vision of potential expanded relationships between their work unit and other areas of C&DE and the University. The experience will enable interns to identify new areas for potential exploration and collaboration, as well as focus on issues of particular interest.

Internships may be based at University Park, at one or more continuing education locations across the state or at a combination of both. C&DE will cover lodging and meal expenses for interns requiring travel to a location other than their University office site, while the intern's office will be responsible for transportation costs.

Applications will be reviewed by a five-member screening committee. Interns have the option of earning one independent study graduate credit in adult education.

For an application form or more information, contact Donna S. Queeney, director of research and external relations, at (814) 863-7752, 507 Keller Building, University Park. The deadline for submitting applications is April 19.

Middle States

continued from page 1

with research experiences, internships and other out-of-class experiences."

Initiatives such as the WISE Institute (Women in Science and Engineering) and CAUSE (the Center for Advanced Undergraduate Studies and Experience, in the College of Earth and Mineral Sciences) program, international initiatives and the University Scholars Program were cited.

■ Observed that the "faculty hold an undeniably impressive record of research and scholarship" from which the students benefit in the classroom. It found a positive climate for research and a common understanding among faculty and academic administrators about the complementarity of teaching and research. Recommended the institutional reward system be reviewed to address the balance of faculty responsibilities for research, teaching and service.

■ The University's recent reorganization of recruitment and retention received high marks. Team noted that Penn State has been effective at outreach to nontraditional student populations.

■ Lauded the University's "creativity in addressing funding limitations, its concern for students' educational needs and the commitment to include diversity and equity issues in programming."

■ Hailed Intercollegiate Athletics as "in many ways a model program," and made special note of the University's academic support of student-athletes.

■ Technology initiatives were also praised, especially the University's efforts to provide Internet access to students and faculty at all locations. Encouraged continued growth in multimedia classrooms and distance-learning infrastructure, but also commented on the problem of directing sufficient resources toward the necessary staff support and future system upgrades.

■ Praised the University Libraries for early advances in technology, the quality of online information, the breadth and depth of its collections and the strength of its leadership.

■ Gave high marks to the management of the University in several areas, especially in terms of

strategic planning, diversity planning and Continuous Quality Improvement (CQI).

■ Said the University-wide initiative spawned by the University Future Process "was intelligently executed" within tight constraints. The strategy of reallocating resources differentially between administrative functions and academic processes — thus preserving as much funding as possible for academic programs — also received high marks.

■ Concurred with Penn State's proposed next step of developing "a more streamlined structure and process" through the University Planning Council and the new strategic planning cycle. The University is urged to keep the lines of communication as open as possible in the planning process and to leave as much of the planning as possible to individual units.

■ Applauded the current review of the Commonwealth Educational System and concurred with the decision to review the interrelationships of all colleges and campuses and review the funding formula, which the team said, now cushions campuses against sudden drops in enrollment but may also result in resource lags in times of sudden enrollment increases.

■ Penn State received an "A" for its commitment to diversity, noting that while perhaps not at the same high level of accomplishment as in other areas, important gains have been made in increasing the representation of underrepresented groups throughout the University community, and concurred with heightening efforts by implementing diversity strategic plans. The team urged central administration to show strong leadership, including hiring at the senior levels of the administration and fostering a more focused approach.

■ Praised the practice of having fiscal officers located within colleges and departments with responsibility to the controller.

The 1996 Middle States evaluation report will provide a framework for continuing assessment and for the periodic review report in the year 2000.

Eleven named Outstanding Engineering Alumni

Eleven leaders in industry, government, medicine and the development of state-of-the-art technology have been selected as 1996 Outstanding Engineering Alumni. The annual award is the highest honor bestowed by the College of Engineering. Only 164 men and women out of more than 72,000 alumni worldwide have received the honor during the award's 30-year history.

This year's Outstanding Engineering Alumni are:

■ **Gifford H. Albright**, Penn State professor emeritus of architectural engineering, who was the founding head of the Department of Architectural Engineering and served the University from 1963-1983.

■ **Rep. Richard A. "Rick" Geist**, majority chairman of the Pennsylvania House Transportation Committee, is serving his ninth term as state representative from the 79th district in Blair County.

■ **Jane M. Gitschier**, professor of medicine and pediatrics at the University of California, San Francisco and associate investigator at the Howard

Hughes Medical Institute in Maryland, headed the research team which discovered an unusual and prevalent mutation in the gene responsible for producing Factor VIII, a protein needed to form blood clots that is missing or deficient in hemophiliacs.

■ **John C. Hayward**, president, Michael Baker Jr. Inc. and Michael Baker Heavy & Highway Inc. — a firm where the engineering component of his unit is the 12th largest in the country according to *Engineering News Record*. Mr. Hayward holds M.S. and Ph.D. civil engineering degrees from Penn State.

■ **Larry M. Hixon**, founder and president of Hixon Associates. He holds B.S. and M.S. degrees from Penn State in agricultural & biological engineering.

■ **W. Ronald Hoopes**, vice president and general manager, Polymer Operations of Hampshire Chemical Corp. He graduated with a degree in industrial engineering.

■ **E. Niles Kenyon**, president and chief operating officer for The Conair Group Inc. of Pittsburgh, responsible for sales of more than \$140 mil-

lion annually. He is an aerospace engineering graduate.

■ **Elwood R. "Woody" Kerkeslager**, vice president, technology and infrastructure, AT&T. The Penn State electrical engineering graduate lives in Madison, N.J.

■ **Leonard A. Pasquini**, senior vice president, Alamos Technical Associates Inc., holds Penn State degrees in engineering, mechanics and nuclear engineering. He is recognized as a national expert in the management of large, complex nuclear programs.

■ **Gerald R. Robertson**, vice president for technology, Carli Corp., holds both bachelor's and doctoral degrees in mechanical engineering from Penn State. He is the holder of four patents and author or co-author of 11 engineering publications.

■ **William J. Ward**, research engineer and technical leader in the Chemical Process Technology Laboratory for General Electric Co., holds 36 patents and has made major contributions to the thermal insulation field. He is a chemical engineering graduate.



Successful event

The duo of Galia Kozlova Higenbotham on the balalaika and Dan Crosser on accordion gave two performances playing Russian songs during the 18th annual Penn State Slavic Folk Festival. The event, sponsored by the Department of Slavic Languages and Dobro Slovo, was held March 22-24 on the University Park Campus.

Photo: Kristie Guldner

Quality Expo '96 kicks off April 11 at Nittany Lion Inn

Quality counts in all organizations and at all levels, from academics and athletics to processing financial records and managing research. Senior administrators, program managers, classroom teachers, department chairs and front-line staff can learn the latest on continuous improvement at Penn State's fourth annual Quality Expo from 11 a.m. to 3 p.m. Thursday, April 11, in the Nittany Lion Inn Ballroom. Faculty, staff, students and the public may attend.

"Each year, the Expo gets more interesting," Louise Sandmeyer, executive director of the CQI Center, said. "We will have more than 35 exhibits of successful quality initiatives, where individuals will be on hand to answer questions and share experiences. New this year, is an exhibit from The University of North Carolina at Chapel Hill. Staff will demonstrate how they have approached total quality across their university. Also new are two Quality Circles, where visitors can join top practitioners from industry and Penn State in discussions of quality issues."

Exhibits will include a model advising program that will give faculty advisers and students immediate access to information on a student's progress toward a degree; CQI Promotion and Tenure teams in the College of Engineering and the University Libraries Acquisitions Services; the Worker's Compensation Claims Process Team and Effective Guest Relations Training Program Team in the College of Medicine; and the Conferences & Institutes Institute in Continuing and Distance Education.

On the more active side, Expo visitors can take part in team-building exercises, try out interactive software and have a little fun with door prizes and a scavenger hunt.

Quality Expo '96 schedule of events

- Ongoing exhibits from 11 a.m.-3 p.m.
- 11 to 11:45 a.m.: Team-building activities led by Shaver's Creek Environmental Center staff — visitors encouraged to join.
- Noon: Welcome from President Graham B. Spanier.
- 12:15 p.m.: "Quiet Riot," brothers Bill and David Mettler of Philadelphia will combine comedy, mime, storytelling, music and sound to examine personal empowerment, team building, cooperative problem solving and communication skills.
- 1 to 1:40 p.m.: A quality circle with Bill Geoghegan from IBM and Ted Brown from DuPont who will discuss lessons learned from recent organizational changes at IBM and DuPont.
- 1:50 to 2:30 p.m.: A Quality Circle with John Brighton, executive vice president and provost, Larry Spence, co-director of the Schreyer Institute for Innovation in Learning, Kathryn Danksy, assistant professor of health policy and administration, and Linda Null, assistant professor, computer science at Penn State Harrisburg, will discuss innovation in the classroom.

For more information about Penn State Quality Expo '96 or about Continuous Quality Improvement at Penn State, please contact Ms. Sandmeyer at les1@psu.edu or call the CQI Center at (814) 863-8721.

You may also visit the CQI home page at <http://www.psu.edu/president/cqi>

LECTURES

Engineering trends topic of April 4 lecture

"Structural Engineering: Some Trends and Future Directions" is the topic of a lecture at the Applied Research Laboratory Auditorium on the University Park Campus at 7:30 p.m. Thursday, April 4.

William McGuire, professor emeritus of civil engineering at Cornell University, will present the Thomas C. Kavanagh Memorial Structural Engineering Lecture for the Department of Civil and Environmental Engineering. The lecture is free to the public.

Dr. McGuire, who has taught at Cornell since 1949, has done extensive consulting work on projects throughout the country, including the U.S. Olympic structure at Lake Placid, N.Y., and investigations of structural collapse, such as the Hyatt Regency walkway collapse in Kansas City and the East Chicago ramp collapse.

His research has focused on a broad array of problems in structural



William McGuire

steel including progressive collapse, nonlinear torsional-flexural behavior and the application of interactive computer graphics. His textbook, *Steel Structures*, published in 1968, is still a classic reference for the field.

As the recipient of numerous engineering awards, Dr. McGuire was elected to the National Academy of Engineering in 1994. The

Kavanagh Lecture is named in memory of the late Thomas C. Kavanagh, professor of civil engineering at Penn State from 1948 through 1952. After leaving Penn State, he went on to serve as a principal partner in an internationally recognized structural design firm and was one of the inaugural class of engineers to be elected to the National Academy of Engineering. For more information, contact the Department of Civil and Environmental Engineering at (814) 865-8391.

Objectivist Club sponsors talk on Ayn Rand philosophy

Gary Hull will speak on "Your Professors' War Against the Mind: The Black Hole of Post-Modernism and Multiculturalism" at 8 p.m. Thursday, April 4, in 10 Sparks Building on the University Park Campus. This event is sponsored by the Penn State Objectivist Club, the Penn State Student Activities Board and the Ayn Rand Institute.

In his lecture, Dr. Hull discusses the essence of post-Modernism and how philosophers for the past 200 years have paved the way for today's irrationalism by systematically divorcing reason from reality.

Dr. Hull received his Ph.D. in

philosophy from the Claremont Graduate School in 1993. He currently teaches philosophy at Whittier College and ethics in the MBA program at the Claremont Graduate School.

He has taught philosophy at California State University, Fullerton, and California State Polytechnic University, Pomona.

Dr. Hull is a graduate of the Ayn Rand Institute's advanced philosophy seminars, has published articles in *The Intellectual Activist* and is the author of *A Study Guide to Leonard Peikoff's Objectivism: The Philosophy of Ayn Rand*.

Diabetes self-management course to be held twice at Hershey Medical Center

People with diabetes may participate in a diabetes self-management course, "Meeting the Challenge," to be held twice this spring at the University Hospitals of The Milton S. Eshelby Medical Center.

The 10-hour course, sponsored by the departments of nursing and med-

icine, will be conducted on two Saturdays, April 20 and 27, 8:30 a.m. to 3 p.m. Lunch is not included. The course will be held again on two Mondays and Wednesdays, May 13, 15, 20 and 22, 1:30 to 4 p.m. Family members may attend at no extra cost.

The program is designed to pro-

Molecular evolution focus of Marker series

Walter M. Fitch, professor and chair of the Department of Ecology and Evolutionary Biology at the University of California, Irvine, will present the 1996 Marker Lectures in Evolutionary Biology from April 3 to 5, on the University Park Campus.

The three-lecture series, titled "Recent Debates in Evolutionary Biology," is sponsored by the Eberly College of Science and is open to the public.

The lecture schedule includes: "Scientific Creationism: An Oxymoron," at 8:30 p.m. Wednesday, April 3, in 111 Wartik Laboratory; "The Molecular Clock," at 4 p.m. Thursday, April 4, in 102 Classroom Building; and "Adaptive Evolution in Viruses," at 10 a.m. Friday, April 5, in 214 Bouck Building.

Dr. Fitch is one of the influential architects in the field of molecular evolution. He has made groundbreaking advances in the statistical and computational methods for studying evolution.

A member of the National Academy of Sciences, the American Academy of Arts and Sciences and



Walter M. Fitch

the Human Genome Organization, Dr. Fitch also is a foreign member of the Linnean Society (London). He serves on the Advisory Board of Biochemical Genetics and on the Editorial Boards of the *Journal of Molecular Evolution* and *Systematic Zoology*, and is a former member of the editorial board of *Systematic Zoology*.

Dr. Fitch earned his A.B. degree in chemistry in 1953 and his Ph.D. degree in comparative biochemistry in 1958, both at the University of California at Berkeley. He has been chair of the Department of Ecology and Evolutionary Biology at the University of California, Irvine, since 1990. He was a Fulbright Fellow in the Biochemistry Department of University College, London, in 1961, and a United States Public Health Fellow at the University of California at Berkeley, from 1958 to 1959, and at the Stanford Medical School from 1959 to 1961.

Surgical basic science to be discussed at Hershey lecture

Dr. Alden H. Harken, professor of surgery and chair of the Department of Surgery at the University of Colorado in Denver, will deliver the Trescher Lecture at 4 p.m. Tuesday, April 9, in the hospital auditorium at The Hershey Medical Center. His lecture is titled "Surgical Basic Science."

Dr. Harken received his undergraduate degree from Harvard College in 1963 and his M.D. degree from Case Western Reserve Medical School in 1967. Since 1964, he has served as a staff cardiovascular surgeon at the University of Colorado, the Veterans Administration Hospital and the Rose Medical Center, also in Denver.

He also has held his current position as professor of surgery and

chairman of surgery at the University of Colorado since 1984.

Before joining the University of Colorado, Dr. Harken held a number of other academic appointments. He holds membership in many professional and scientific societies including the American Association of Thoracic Surgery, the American Boards of Surgery and Thoracic Surgery and the American Heart Association. He has served as president of the Association for Academic Surgery and the Society of University Surgeons.

He currently serves on the editorial board of *Shock* and has previously served on the editorial boards of other professional journals. He is author of nearly 300 articles, abstracts and book chapters and has also written six books.

vide those with diabetes with day-to-day management tools for their condition. Participants learn about the characteristics of diabetes, short- and long-term complications, blood glucose monitoring, medication and the roles of exercise and nutrition. The course includes an individual appoint-

ment with instructors and all materials.

Registration deadlines are Friday, April 12, for the April course and Friday, May 3, for the May course. To register and for information on cost and exact location, contact Maxine Gerberich at (717) 531-3592.

More Lectures

Authority on Spanish literature to speak April 1

John W. Kronik will present a public lecture titled "Strains of Postmodernism in the Modern Narrative," at 8 p.m. Monday, April 1, in 22 Deike Building on the University Park Campus.

Former editor of *PMLA* for seven years, Dr. Kronik holds an honorary doctorate from Illinois College and has taught as visiting professor at a dozen distinguished colleges and universities. A leading authority on 19th- and 20th-century Spanish literature and mentor to a number of now prominent critics in the field, he is the author of many studies on Spanish narrative and theatre. The lecture is sponsored by the Department of Spanish, Italian and Portuguese.

Lunchtime talk addresses views of Eastern Europe

"Poland is not Yugoslavia. Neither is Ukraine" is the topic of a talk to be given at noon April 2 by award-winning journalist Elizabeth Pand, former European correspondent for the *Christian Science Monitor*.

During a brown-bag lunch seminar, sponsored by the Center for Russian and East European Studies, the Department of Political Science, the College of Communications and the Office of International Cooperative Programs, the author of *To the Yugoslav Station: Russia Perceived and Beyond the Wall: Germany's Road to Unification* will address perceptions of the Ukraine. The public may attend the talk in 102 Weaver Building on the University Park Campus.

Fifth annual Office Professionals Conference set

Penn State Harrisburg will present the fifth annual Office Professionals' Conference on Wednesday, April 17, in Harrisburg.

Speakers include: Anne Beiler, founder and owner of Auntie Anne's Pretzels Inc., "Success is a Journey, Not a Destination," and Debra Morris, study tour coordinator for Penn State Harrisburg, "Taking Home Healthy Attitudes for Change (Fun, Fitness, Re-Creation)."

Registration fees are \$145/person and \$125/person for groups of three or more from the same organization. For more information or to request a detailed brochure, call Penn State Harrisburg at (717) 948-6050.



A sampling of what you'll see

Teaching assistant Brett Hofstad, at work table, a master's candidate in aerospace engineering, explains the construction of a sailplane wing to engineering students Melissa Morehouse, left, Tom McGuire and Scott Glaser. The course, Aerospace 204H/404H, which deals with flight vehicle design and fabrication, is open to engineering students regardless of semester standing. The students are building a full-size sailplane for the class.

Engineering expects crowd for open house

Approximately 2,500 high school students and their families are expected to attend the 1996 College of Engineering Open House on Saturday, March 30, from 9 a.m. to 3:30 p.m. on the University Park Campus.

The event, open to the public, provides visitors with the opportunity to see demonstrations and working displays throughout the college—including laser and holographic displays, the sailplane design and fabrication project, and tours of the Breazeale Nuclear Reactor and computer vision research lab. All engineering depart-

ments will be open to visitors with faculty and students on hand to answer questions and discuss various majors.

Engineering Open House registration and general information will be on the first floor of Kunkle Lounge, the glassed-in area at the east end of Hammond Building, across from the Corner Room. For additional information, contact Geri Stonebraker at (814) 863-3750.

The College of Engineering is celebrating its centennial in 1996, marking 100 years of leadership in engineering education, research and service.

Promotions

Elizabeth Asbell-Swanger, events manager in University Arts Service.

Stacey A. Aston, staff assistant V at The Hershey Medical Center.

Judith L. Banker, staff assistant VI in The Office of the President.

Rebecca L. Barton, staff assistant V in Continuing and Distance Education.

William O. Bishop, instructional designer at Penn State Delaware County Campus.

Matthew J. Bodek, instructional designer at Penn State Delaware County Campus.

Jane B. Bozzer, staff assistant V in Student Affairs.

Nita F. Bortel, senior psychiatric assistant at The Hershey Medical Center.

Brenda J. Brintzenhoff, trauma resource specialist at The Hershey Medical Center.

Scott R. Brooks, technical analyst III at The Hershey Medical Center.

Patrick S. Broos, research programmer in the Eberly College of Science.

Joseph E. Caloiero, clinical psychiatric specialist at The Hershey Medical Center.

Cynthia M. Campbell, employment/classification specialist II in Office of Human Resources.

Brenda L. Coe, project associate in College of Agricultural Sciences.

Beverly A. Coyle, LPN/MEDS at The Hershey Medical Center.

Christopher P. DuFour, conference planner in Continuing and Distance Education.

Fred D. Espenshade, business analyst II at The Hershey Medical Center.

Linda L. Ferrari, staff assistant VI at The Hershey Medical Center.

Teresa M. Ganse, business analyst III at The Hershey Medical Center.

The ARTS

AT PENN STATE

Horn Ensemble to perform

The Penn State Horn Ensemble will perform a free concert at 1:30 p.m. Saturday, March 30, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The 15-member ensemble features undergraduate and graduate music students, as well as several students from other disciplines. The ensemble is directed by Lisa O. Bontrager, associate professor of music, and assistant director Kim Reese, a doctoral student in music education.

Art restoration exhibit at Altoona

"History Repeats Itself," an exhibit of large, richly colored photographs of restoration projects undertaken by Albert Michaels Conservation Inc., an art and architectural restoration company, are on display through March 30 in the McManahan and Sheetz Art Galleries in the Community Arts Center on the Penn State Altoona Campus. Recent restoration projects undertaken by the company include the Pennsylvania Capital Building in Harrisburg, the Mishler Theatre in Altoona and Charles Schwab's railroad car at the Railroads' Memorial Museum in Altoona. Gallery hours are Monday through Thursday 9 a.m. to 8 p.m.; Friday 11:30 a.m. to 8 p.m.; and Sunday noon to 3 p.m.

"I Was Here"

Dahn Hiuni's master of fine arts thesis exhibition, titled "I Was Here," opens Saturday, March 30, and will be on display through Wednesday, April 10 in the Zollner Gallery on the University Park Campus.

An opening reception will be held Saturday, March 30 from 8 to 10 p.m. in the Edwin Zollner Gallery. The exhibition and reception are free to the public.

Created in the Visual Arts Building, the gallery is open 9 a.m. to 5 p.m. Monday through Friday; 11 a.m. to 4:30 p.m. Saturday; and noon to 4 p.m. Sunday. It's closed Saturday, April 6 and Sunday, April 7 for Easter.



Spring concert

Mark Skinner and Anita Madhav perform the Bulgarian "Spoon Dance" from the Varna Dobrudzha area. The Penn State International Dance Ensemble will perform this and other traditional dances, music and song at their 18th Annual Spring Concert April 13.

Photo: Greg Grieco

"Day of Percussion"

A "Day of Percussion" will be held Sunday, March 31, beginning at 10 a.m. and concluding with a final concert at 6 p.m. in the School of Music Recital Hall on the University Park Campus.

Scheduled events include clinics by: Joel Rosenblatt, drummer with the group Spyro Gyra; Doug Rosener, former instructor for the University of North Texas Drumline, working with members of the Blue Band drumline; Dean Witten, percussionist with Frank Sinatra; Eric Remsen, timpanist with the Minnesota Opera Orchestra and product developer for CODA software.

The 6 p.m. concert will be presented by the West Virginia University African Drum and Dance Ensemble. An interactive clinic/demonstration of authentic African percussion instruments and rhythms by Paschal Yao Young, a native of Ghana, follows.

Admission is \$12, which includes entrance to all events.

For more information contact Dan C. Armstrong at (814) 863-4418.

Sculpture and quilts on display in Pattee

An exhibition of sculpture and quilts by Silvia Romig Apple will be on display in Pattee Library's East Corridor Gallery from April 1 to 30.

Ms. Apple's inspiration for many of her recent works comes from studies in prehistoric art and anthropology with a recurrent theme concerning people's attitudes toward their environment. Recently she has begun using random piecing, hand painting, monotyping, and silkscreen techniques in her fiber works.

Sculpture is a relatively new endeavor for Ms. Apple. She has exhibited sculpture along with her fiber work in exhibits in 1993 and in 1994, both held at the Art Alliance Gallery in Lemont.

Philharmonic finale

The Penn State Philharmonic Orchestra, under the direction of Pu-Qi Jiang, associate professor of music, will present its final concert of the season at 8 p.m. Tuesday, April 2, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The concert will feature Susan Boardman, associate professor of music, as soprano soloist in Gustav Mahler's 4th Symphony in G Major.

Admission is \$4 for adults; \$2 for students. Tickets will be available in the lobby of the School of Music before the performance.

"Dyfrig the Dragon"

Penn State's Children's Opera will present an additional performance of "Dyfrig the Dragon" at 7:30 p.m. Wednesday, April 3, at the State College Women's Club, 902 S. Allen St., State College. The performance, for children of all ages, will be directed by Sara Hopkins, School of Music instructor.

The audience of "Dyfrig" will have the opportunity to participate in the performance. Before the opera begins the choruses will be taught. Cue cards will be used to assist the audience during the 30-minute, free performance.

Bach's Lunch

The Penn State University Women's Choral, directed by Paul McPhail, teaching assistant in the School of Music, will perform at the Bach's Lunch concert series at 12:10 p.m. Thursday, April 4, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute free concert is part of the Bach's Lunch series sponsored

by the School of Music and University Lutheran Parish.

The Women's Choral will present its spring concert at 5 p.m. Sunday, April 14, in Faith United Church of Christ, State College.

The audience may take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided.

"Limpopo"

Limpopo will perform at 8 p.m. April 9, in the HUB Fishbowl on the University Park Campus as part of the HUB "Distinctive-Styles" concerts.

Limpopo is a four-piece Russian folk'n'roll band that has taken the U.S. and Canada by storm with its wild and crazy stage antics and music ranging from traditional Russian folk to vintage American rock'n'roll.

All concerts in the series begin at 8 p.m. and admission is free. For further information, contact Judy Scroggs at (814) 863-4659 or (814) 865-1051.

International Dance Ensemble

The Penn State International Dance Ensemble will celebrate its 18th Annual Spring Concert on Saturday, April 13, in White Building Dance Theatre on the University Park Campus. The ensemble's 1996 showcase of dance, music and song from diverse world cultures will feature centuries-old Egyptian "bedeli" dancing up to the 1990's American hip-hop style. The ensemble's singers and musicians will present traditional European music as well as American country western.

Times for the 90-minute show are 2 p.m. and 7 p.m. Tickets are \$7 general admission; \$5 for students and senior citizens. Tickets may be bought from ensemble members, at the door or ordered by telephone at (814) 863-3467.

Slavic eggs

The Kern Exhibition Area cases will feature Slavic eggs through April 16.

The exhibit includes dozens of intricately designed Ukrainian Easter eggs, called pysanky. The tradition of painting the eggs is more than 1,000 years old. The symbolism of the design of the eggs has shifted in recent times from early pagan emblems of fertility and nature to religious symbols of renewal and resurrection.

The Kern Exhibition Area is on the first floor of Kern Building on the University Park Campus. Exhibition hours are 8 a.m. to 11 p.m. Monday through Friday; 10 a.m. to 11 p.m. Saturday; and noon to 11 a.m. Sunday.

Stuart Frost exhibit

The HUB's Browsing Gallery on the University Park Campus is featuring the works of Stuart Frost through May 13. His show consists of selected works from a 50-year period.

Mr. Frost, a Penn State graduate from the College of Liberal Arts, is a retired Penn State professor of art who specializes in drawing and painting. He also taught design, sculpture and general arts for 39 years.

Academic Awards Convocation 1996

INTERCOM
SPECIAL SECTION

These awards will be presented at the Academic Awards Convocation at 2 p.m. Sunday, March 31,
at the Nittany Lion Inn on the University Park Campus

March 28, 1996

Volume 3, Number 1

Atherton Award for Excellence in Teaching bestowed on four

Four University faculty members will receive the 1996 George W. Atherton Award for Excellence in Teaching. They are: Douglas N. Arnold, professor of mathematics, University Park Campus; Richard J. Cyr, associate professor of biology, University Park Campus; Mary Gergen, associate professor of psychology, Delaware County Campus; and Norbert Mayr, associate professor of history, Worthington Scranton Campus.

The award, named after Penn State's seventh president, was established in 1989 as a continuation of the AMOCO Foundation Award. It honors excellence in teaching at the undergraduate level.

Dr. Arnold is a leader in the use of computers in mathematics education and has been especially involved with the teaching of calculus. He maintains a heavily visited World Wide Web site that includes graphics and animations vividly depicting things like the volume of water in a tipped glass or Archimedes' calculation of pi. He also is the author of an article on computer-assisted instruction in Encarta, a CD-ROM encyclopedia to be published in 1997 by Microsoft.

Dr. Arnold spearheaded the 1992 effort that led to the establishment of the McAllister Technology Classroom. In addition, last year he was a principal member of a group that received a \$500,000 grant from IBM to establish two computer laboratory/classrooms on campus.

Dr. Arnold is the epitome of the outstanding University teacher, a colleague said. "He brings to his undergraduate teaching the same penetrating intelligence, boundless enthusiasm and hard work that have made him an internationally recognized scholar. He proves that research and teaching are not mutually exclusive activities, as they are often portrayed, but rather symbiotic processes in which each reinforces the other."

Dr. Arnold said he approaches calculus instruction by trying to help students appreciate "the exceptional utility of calculus on the one hand, and its inherent beauty and compelling logic on the other. I introduce applications early on, and students are always impressed when they see the currency of applications of calculus."

Dr. Cyr has taught biology courses to more than 7,000 students since coming to Penn State in 1989 and has personally orchestrated the total redesign of Penn State's general biology sequence into a series of four courses. The four-semester series allows deeper coverage of the subjects, introduces a writing component and provides a more interactive and collaborative set of lab experiences.

Dr. Cyr also helps undergraduates work for independent study credit in his lab and advises University Scholars Program participants. Five years ago, he received a grant from AT&T to equip a computer learning lab for undergraduate students in biology.

He is co-author of the general biology lab



DOUGLAS N. ARNOLD



RICHARD J. CYR



MARY GERGEN



NORBERT MAYR

manual and a major participant in the department's Howard Hughes scholars program for outstanding undergraduates.

Dr. Cyr, said a colleague, "is knowledgeable, he has a natural talent for describing and explaining difficult subjects, he has charisma, he cares deeply about student learning, and he devotes large amounts of his time to the undergraduate education mission of Penn State."

Dr. Cyr said his philosophy of teaching is "to help students learn how to think, how to communicate what they understand and how to obtain a basic core of knowledge in a given subject. These qualities can be taught at all levels and in different yet complementary ways."

Dr. Gergen has been using active and collaborative learning techniques in her classroom long before it was a commonly accepted practice, said a colleague.

To facilitate collaborative learning, Dr. Gergen requires students to work in small groups on various kinds of projects, such as designing and leading a class for one period or researching a current social phenomenon and presenting their findings in a paper or on video.

Dr. Gergen has been described as extremely creative in involving students with the material she's presenting in a lecture. For instance, while lecturing on memory, she will remove outer layers of clothing (coat, jacket, sweater, vest) as the class

progresses, then ask the students to write a paragraph recalling what happened. (The lecture is videotaped so that student's written recollections can be compared with the visual record of what happened.)

Dr. Gergen also is adept at using classroom discussion as a learning tool and is known for working well with traditional students as well as returning adults.

A former adult student of Dr. Gergen's says that she "breathes life into a classroom, energizing everyone around her."

Dr. Gergen said she takes seriously the notion that "people learn by doing, rather than by hearing others talk about it."

Dr. Mayr has won several awards for effective and innovative teaching and for service to the Worthington Scranton Campus. In his teaching, said a colleague, Dr. Mayr "concentrates on the great issues and movements that force historical change, and his students find this relevant to today's events and to their own lives. His classes have remarkably high levels of student involvement, or obvious student interest."

Another colleague cited "his energetic drive to do what is best for the students and his dedication to the ideals of this institution. His enthusiasm is infectious and his impact on the campus goes well beyond the classroom."

For example, Dr. Mayr organizes weekly symposia or panel discussions on current events; takes students on field trips to places like the Immigration Museum on Ellis Island in New York City, Historical Williamsburg in Virginia and the U.S. Holocaust Museum in Washington, D.C.; runs weekly volleyball games between students and faculty; and involves students in community service projects. He generated the first student-supported scholarship in memory of an honors student who was killed in an auto accident and organizes semi-annual fundraisers for the scholarship.

As coordinator of the campus Honors Program/University Scholars Program, Dr. Mayr participates in the recruitment, screening and selection of students for the program, administers honors options and serves as honors adviser.

Knowledge, said Dr. Mayr, "should not be confused with the ability to hold vast reservoirs of data to be regurgitated on command at test time.

True knowledge is found in the ability to analyze the value of information and to separate the trivial from the meaningful by using critical judgments and reason. It is the teacher's task to develop in the students the competence to do just that."

The following writers from the Department of Public Information contributed to this special section:

Kimberly Yarnell Bierly, Paul Blaum, Gary Cramer, Vicki Fong, Barbara Hale, Alan Janesch, Andrea Messer, Jason Purcsey, Scott Turner and Nancy A. Williams.

Barry earns International Achievement Award for contributions

The International Achievement Award was established to recognize faculty and staff members who have contributed significantly to the international mission of the University through their research and teaching.

Kathleen Barry, professor of human development in the College of Health and Human Development, has won the University's 1996 International Achievement Award.

The award was established to recognize faculty and staff members who have contributed significantly to the international mission of the University through their research and teaching and through participation in international projects.

Dr. Barry, a sociologist, joined Penn State in 1988, having already established herself as an international researcher and women's rights activist whose work addresses the economic and social exploitation of women in various parts of the world. From her research, she has developed international public policy under the auspices of the United Nations and the United Nations Educational, Scientific and Cultural Organization; notably, she developed a proposed new U.N. Convention on the Elimination of All Forms of Sexual Exploitation.

She has initiated student and faculty exchanges and research linkages between Penn State and universities in Vietnam. She developed and led the 1993 Penn State/Vietnam seminar, "Family and the Conditions of Women in Society," held in Vietnam. Her latest book, *Vietnam's Women in Transition* (St. Martin's Press), result-



KATHLEEN BARRY

ed from that meeting and is an anthology of cross-cultural dialogue and research on women in Vietnam.

She developed and coordinated a 1991 Penn State conference, "Sexuality and Violence: Multicultural Feminist Perspectives," and was the 1992 keynote speaker for the Sexual Assault Awareness/Prevention Series sponsored by the Center for Women Students. She lectures widely throughout the United States and abroad.

She was a 1995 recipient of a Fulbright Award to lecture and conduct research at the University College in Dublin, Ireland, where she initiated a new research project on family modernization in Ireland. At the invitation of the U.S. Embassy in France, she also undertook a 10-city university lecture tour in France, where she spoke on the history of feminism in the U.S.

She was one of only two U.S. women named in 1995 by the French magazine *Marie Claire* as being among 100 people who have changed the world for women.

She is also the author of the books *Female Sexual Slavery* (1979), *Susan B. Anthony: A Biography* (1988), and *The Prostitution of Sexuality* (1995), all published by New York University Press. *Female Sexual Slavery* has been translated into six different languages.

Buckmaster and Prakash noted for their distinguished teaching efforts

The 1996 winners of the Milton S. Eisenhower Award for Distinguished Teaching are Elizabeth Buckmaster, assistant professor of English, and Madhu S. Prakash, associate professor of education.

Dr. Buckmaster consistently receives the highest student ratings at the Delaware County Campus, teaching six courses annually in composition, writing and literature. She is the college representative for the letters, arts and sciences program, serves as chief adviser to students in the associate degree program and assists students who pursue a baccalaureate degree.

"Regardless of the course or circumstance that brings her in contact with students, the outcome is that her students learn and credit her for their new-found confidence and self-reliance as learners," her colleagues said.

One of Dr. Buckmaster's former students said, "I marvel at her ability to tell a story in the classroom, to reveal herself through her own experience and to allow an atmosphere of trust, a suspension of fear that gives her students the ability to be themselves and discover their own talent."

Indeed, when Dr. Buckmaster assigns a freshman composition paper, she also writes it.

"I think it's important that they see me work at writing, trying different approaches," Dr. Buckmaster said.

An instructor and professor at Penn State for 29 years, Dr. Buckmaster says one of her chief goals is to show students that good writing results from considerable effort.



ELIZABETH BUCKMASTER



MADHU S. PRAKASH

"What I try to do is convince them that, like any relationship worth nurturing, learning to write is hard work, that one never succeeds completely, that the writer is always left yearning for the perfect word or phrase that exists, tantalizingly, just out of reach."

Dr. Prakash has taught a range of courses in philosophy of education since 1981. She has served on more than 40 committees or other groups that have addressed concerns of her profession, Penn State, the College of Education and the State College community.

According to a peer, "Dr. Prakash is not just a good teacher, she is a model of what excellent teaching should be. She is lauded for bringing a different perspective to her students, in a way that promotes learning by healthy debate."

Dr. Prakash is considered an exemplary role model for female students because she bridges the gap between academic learning and learning about life. Female students make up the majority of students in the College of Education.

"This is the first time since I entered Penn State that a teacher has moved me so deeply," writes a former student. "Dr. Prakash is a spiritual inspiration; her in-depth knowledge of complex philosophies and everyday people, coupled with her passion and compassion for all of life's true meanings, has influenced me to think of my life with meaning, purpose, and a caring sense of what influence my actions have on the rest of the world."

According to those nominating her for the award, Dr. Prakash tries to create openness in the classroom to help students explore new concepts and ideas that reflect the diversity of culture, race, class, gender and the natural environment. Her teaching broadens philosophy and education to cover themes that include culture and agriculture, biological and cultural diversity, social and natural ecology, waste and recycling, food and nutrition, science and technology, and the ideals and virtues of community.

The Eisenhower Award recognizes outstanding efforts among Penn State's tenured faculty with undergraduate teaching as a major portion of their duties. The award was named in honor of Milton S. Eisenhower, president of Penn State from 1950-56.

Two garner honors for advising

The 1996 Excellence in Advising Awards will be presented to William L. Henson, assistant to the dean, minority affairs, College of Agricultural Sciences, and Deborah L. Clarke, associate professor of English and women's studies in the College of the Liberal Arts.

This award acknowledges excellence in advising, academic and career guidance and assistance to students in decision making and goal setting.

Dr. Clarke, currently on leave, has directed the Honors Programs in the Department of English for two years. At present, she advises 60 undergraduate majors in the English honors program. Since 1989, she has advised more than 300 Penn State graduate and undergraduate students. In 1996, she received the College of the Liberal Arts Outstanding Faculty Adviser Award.

Dr. Clarke is a specialist in 20th-century American literature, women writers and feminist literary theory. In 1993, she won Penn State's Ahterton Award for Excellence in Teaching. While at Eastern Illinois University, she also received the Faculty Award in Excellence in Teaching.

She is the author of the book *Rabbing the Mother*, which examines the role of women in William Faulkner's novels.

"What distinguishes her above other advisers cannot be measured by looking at data and facts. Professor Clarke always took the time to ask about not just my studies, but also my life outside the classroom. At a university as large as Penn State, it is too easy for advising to become a rote exercise that misses the human element. But Professor Clarke surmounted the task and treated her advisees like individuals," an advisee noted.

"The most important thing for an adviser to do is to listen and to remember that a student's academic career should not be determined simply by numbers and categories," Dr. Clarke said.

An academic adviser for 27 years, Dr. Henson is an assigned adviser in programs in the Department of Agricultural Economics and Rural Sociology. He also serves as supplemental adviser for minority students and for special population students with other agricultural science majors. He is the academic adviser for 50 students.

"I have never met a person who takes such a personal interest in the students he advises," said a senior adviser majoring in horticulture. "Dr. Henson's excellence in advising is exemplified in his logical advice, career guidance and personal characteristics." A colleague adds, "Students are confident that he cares about them. Most of all, he is a great listener."

A founder of MANRA, the Penn State chapter of the national society for Minorities in Agriculture, Natural Resources and Related Sciences, Dr. Henson received the Penn State University Award for Outstanding Contributions Improving Equal Opportunity And Cross-Cultural Relations in 1989. Two years before that, he was presented with the presidential citation from the National Association for Equal Opportunity in Higher Education.

In 1986, he received a special citation from the Graduate School for service in promoting minority graduate study.

"I believe that academic advising must revert to the historical relationship which provided the student a mentor, a personal and career counselor and a friend. The student is the university's customer," Dr. Henson said.



DEBORAH L. CLARKE



WILLIAM L. HENSON

Finley lauded for administrative skills

Robert C. Finley, assistant to the senior associate vice president for finance and business, has been named the winner of the Award for Administrative Excellence.

This award is given annually to a member of the staff whose performance methods and achievements exemplify administrative excellence.

Mr. Finley, a 1964 graduate of Penn State, has worked at the University for 31 years, having served in his present position for the past seven years. He previously was the administrative director of Business Services at University Park and director of operations at Penn State Erie, The Behrend College.

In his current position, he has three major functions. He supports the directors of business services statewide, serving as their mentor, consultant and adviser to help them interface with University Park central offices.

His second major assignment is the operation and development of the University Park Airport. Mr. Finley works with elected officials at various levels—from township officials to members of Congress. In recent years, his efforts have been key to construction of a new terminal building, major runway improvements, a future general aviation building and corporate hangars. All of these projects will exceed \$35 million with 95 percent of the funding coming from the federal and state governments.

His third major assignment is to serve as liaison with a number of University and local community groups. He represents Penn State on 24 major regional planning, transportation and environmental boards.

In nominating him for this award, his colleagues have lauded his managerial skills, people skills and community activities saying they make him an excellent match to the award's criteria.

"In the areas of physical plant, parking and special projects he has had a major impact on the Commonwealth Educational System campuses. He has been a champion for the campuses, often arguing strenuously for equity in allocations of capital improvement funds and major maintenance and renovation funds," said one colleague.



ROBERT C. FINLEY

Equal Opportunity Award goes to assistant professor in HE&HD

For all of her 30 years at Penn State, Marilyn Eastridge, winner of the 1996 Equal Opportunity Award, has been committed to equal opportunity and has been an advocate for cultural diversity in her department and University-wide.

An assistant professor of exercise and sport sciences, Ms. Eastridge has served as the chair of the Penn State Commission for Women and a member of its New Agenda Committee; she was chair of the College of Health and Human Development Curriculum Integration Committee and is a current member of its Diversity Committee; she is a current member of the Commission on Lesbian, Gay and Bisexual Equity and chair of its ad hoc Committee on Domestic Partner Benefits.

"Professor Eastridge has demonstrated the highest commitment to those criteria which the Equal Opportunity Award recognizes," a colleague said.

Not only has Professor Eastridge been vocal and visible in working toward eliminating all forms of discrimination, she has supported and been the point person for some of its more controversial elements.



MARILYN EASTRIDGE

"Much of Marilyn's demonstrated commitment can be seen in her work on women's issues on campus," said a colleague. "But Marilyn's more recent and, I think, more profound contribution is her steadfast advocacy for equity for lesbian, gay and bisexual members of the Penn State community."

As chair of her college's curriculum integration committee, she helped develop a series of workshops for Health and Human Development faculty and staff on the improvement of the classroom climate for diverse students

and the integration of course content on issues related to diversity.

She was instrumental in writing an EOPEC grant proposal to hire for one semester in 1989 a guest African dance artist-in-residence for the Department of Exercise and Sport Science. This was the first time an African dance course was offered at University Park. The course is still going strong six years later and the department hired the instructor after the grant ended.

"It is because of Marilyn's commitment and vision that students from diverse backgrounds and academic areas have experienced the philosophies, traditions, aesthetics, music and dances of the people of Africa and African descent," the instructor said. "Marilyn has clearly demonstrated leadership which strives for the elimination of discrimination and the fostering of greater racial understanding."

According to a colleague, "It is hard to find an area of the University's diversity effort in the past 10 years in which Marilyn has not been involved."

Instructor recognized for service

Robert Ricketts, an instructor in exercise and sport science, has been selected to receive the 1996 Barash Award for Human Service.

The Barash Award recognizes a full-time member of the Penn State faculty, staff or student body at University Park who has contributed most, apart from regular duties, to human causes or public service. The activities must have been performed at University Park, in the Borough of State College or in the townships of College, Patton, Harris or Ferguson.

Dr. Ricketts is being honored for his dedication and work with several community organizations including the YMCA, Second Mile, Centre County United Way, Outing Club and College Township Recreation Committee.

For the State College YMCA, he has served on the board of directors, serving as president and currently, as vice president; and he chaired the program committee. His leadership assisted in the construction of a climbing wall in the gym and the fitness path stations on the grounds of the YMCA building. He also recruited students from Outward Bound classes and other classes as volunteers and interns.

With The Second Mile, Dr.



ROBERT RICKETTS

Ricketts has been involved as a host parent for a young man in foster care, an adult volunteer for The Friend Program and a consultant to the Summer Challenge camps, which have grown from serving 35 youngsters to 400 youngsters statewide. He encouraged many of his students to participate in this community service, and provided the leadership necessary for his students to design and implement Friend events.

The Ricketts continued to serve as foster parents for the young man and provided a home until he graduated from high school. The young man currently serves in the military and considers the Ricketts his "family."

Another achievement is his

work as a member of the Penn State United Way Committee. As coordinator of the College of Health and Human Development effort, he developed a record-breaking participation level for the college in 1990.

Other community activities include Leadership Centre County, College Township Recreation Committee and Centre Region Parks and Recreation Department. At the University, he was instrumental in the growth of the Outing Club, which has more than 1,300 student members today, and the development of instructional courses and leadership seminars.

"The impact that Bob has had on the entire community is remarkable," said a colleague. "He moves forward with great energy and brings unity, Penn State students and community groups together to make the Centre Region a better place for us all."

Dr. Ricketts teaches courses in outdoor/adventure programming and health/fitness management. His research interests are in outdoor skills development, outdoor programming and physiological aspects of survival. He earned a D.Ed. in 1967 in exercise and sport science from Penn State.

Smeal College administrative assistant garners Staff Excellence Award

Judith A. Pressler, administrative assistant II with the accounting department in The Smeal College of Business Administration, has won the University's 1996 Staff Excellence Award.

The award recognizes consistent outstanding performance from staff members who demonstrate the philosophy of continuous quality improvement, team spirit and managerial excellence in the performance of assigned duties to the betterment of their units and the University.

Ms. Pressler has worked for the University for 26 years, starting in 1959 as a secretary with the Department of Agricultural Economics and Rural Sociology and later serving with the Department of Bacteriology, the administrative office of the College of Agriculture, and the Department of Microbiology until 1968. For the next 11 years, she was a homemaker and full-time mother.

She returned to the University in 1979 as a secretary for the Department of Molecular and Cell Biology and was promoted to administrative aide in 1985. She joined the Department of Accounting in 1988.

Judy has grown and developed in the Penn State system to the point where she must now be counted with the very best staff members," wrote a colleague in nominating Ms. Pressler for the award. "She accepted the challenge of being a major player in the support of the accounting department's



JUDITH A. PRESSLER

goal of attaining 'top 10 publics status,' and has contributed significantly to the progress we have made in attaining this goal."

Other honors she has won are the 1994 Outstanding Office Professional Award from the Penn State Educational Office Professionals (PSEOP) and the 1992 Outstanding Service Award from the accounting department. With PSEOP, she is a coordinator for the WPSX-TV volunteers program. She recently joined the National Association of Educational Office Professionals.

"In my years of experience I have never observed a person who so selflessly serves her department and others," another colleague wrote about Ms. Pressler. "There is hardly a day that has passed that I have not observed Judy going above and beyond the call of duty."

She presently serves as The Smeal College of Business Administration staff sexual harassment officer and has served on the college's Staff Awards Committee and Futures Committee Administrative Support Task Force. She is also a member of the Penn State International Hospitality Council Friendship Family Program, and a volunteer with the St. Paul's United Methodist Church Shoe Bank and Hospital Visitation Program.

She is a past coordinating council member of the Professional Women at Penn State, a past president of the Halmforn United Methodist Women and a current secretary with Halmforn Grange #290.

Ms. Pressler has enrolled in nine undergraduate-level courses as a non-degree student since 1990 and is currently taking the English 412 Advanced Fiction Writing course, admittance to which requires English department approval based on a portfolio of completed fiction.

Five earn Faculty Scholar Medals for outstanding research work

Five Penn State professors will receive 1995-96 Faculty Scholar Medals for Outstanding Achievement.

They are: **Karen L. Bierman**, professor of psychology for the social and behavioral sciences medal; **Dmitri Burago**, assistant professor of mathematics for the physical sciences medal; **Daniel J. Cosgrove**, professor of biology for the life and health sciences medal; **William J. Duiker**, liberal arts professor of East Asian history for the arts and humanities medal; and **Joseph L. Rose**, Paul Morrow Professor of engineering design and manufacturing, for the engineering medal.

Established in 1980, the award recognizes scholarly or creative excellence represented by a single contribution or a series of contributions around a coherent theme. A committee of faculty peers reviews nominations and selects candidates.

Dr. Bierman has been a pioneer in the rapidly emerging area of developmental psychopathology. She is recognized as a leader in conceptualizing the merger of the rich empirical data of clinical practice with the highly articulated theories and rigorous research requirements of developmental psychology and epidemiology required for progress in this complex area. Within this broad domain, her special interest is in the etiological heterogeneity of conduct disorders of children and adolescents. She is a principal investigator in the nationwide Multisite Prevention of Conduct Disorder project, the largest such program funded by the National Institute of Mental Health, and is recognized as one of the leaders in this area of mental health research.

Dr. Bierman received her B.A. with distinction in psychology in 1975 from Stanford University. She received an M.A. and Ph.D. in child clinical psychology from the University of Denver in 1978 and 1981 respectively.

She began her academic career as assistant professor in clinical psychology at Penn State in 1981, became associate professor in 1987 and professor in 1992. She received the Penn State Panhellenic Council Outstanding Woman Faculty Member award in 1995, the Distinction in the Social Sciences Award from the College of the Liberal Arts in 1993 and she was a William T. Grant Foundation Faculty Scholar from 1982-87.

Dr. Burago's proof of two outstanding conjectures is considered a major achievement in Riemannian geometry. His investigation of periodic curved n -dimensional spaces, like the ones obtained by mass distributions in general relativity, are significant—proving applicable to numerous other problems that only recently seemed unsolvable.

His first achievement concerns periodically perturbed Euclidean spaces still having exactly one shortest curve between each pair of points. He proved that such spaces must be flat Euclidean space. His second achievement describes the rate of growth of the volume of a ball in any curved periodic n -dimensional space, in comparison to



KAREN L. BIERMAN



DMITRI BURAGO



DANIEL J. COSGROVE



WILLIAM J. DUIKER



JOSEPH L. ROSE

The Faculty Scholar Medals for Outstanding Achievement recognize scholarly or creative excellence represented by a single contribution or a series of contributions around a coherent theme.

the corresponding growth in a flat space.

Dr. Burago received his diploma of mathematician summa cum laude in 1986 and his candidate of physical and mathematical sciences in 1992 from the St.-Petersburg State University, Russia. He became an assistant professor in the department of mathematics and mechanics at St.-Petersburg State University in 1990, but left there in 1994 to become a postdoctoral lecturer at the David Rittenhouse Laboratory, University of Pennsylvania. He became an assistant professor of mathematics at Penn State in 1995. He was named a scientific researcher at the Laboratory for Informatics and Automation, Russian Academy of Sciences in 1986 and has been on leave from that position since 1994.

Dr. Cosgrove will receive his award for his pioneering work on expansions—proteins that are responsible for the mechanism of plant cell wall expansion. His research on the biophysics, biochemistry, physiology and, more recently, molecular biology of these proteins, demonstrates great breadth. His imaginative and creative work represents a major breakthrough in the concept of plant cell growth.

He received his B.A. in botany from the University of Massachusetts, Amherst in 1974 and his Ph.D. in biological sciences from Stanford University in 1980. He was a visiting research scientist at Kernforschungsanlage, Juelich, Germany in 1980 and did postdoctoral research at the University of Washington, Seattle in 1981-82. He joined Penn State in 1983 as an assistant professor and became professor in 1991. He was a National Science Foundation Presidential Young Investigator from 1984 to 1989 and is a Fellow of the American Association for the Advancement

of Science. Dr. Cosgrove received a McKnight Foundation Award in 1986-89, a Fulbright Senior Professor Award in 1989-90, and a Charles A. Shull Award from the American Society of Plant Physiologists in 1993. He was a John Simon Guggenheim Fellow in 1989.

Dr. Duiker is honored for addressing key issues in the history of Southeast Asia and its involvement with Western powers in his books, *The Rise of Nationalism in Vietnam, China and Vietnam: The Roots of Conflict*, *The Communist Road to Power in Vietnam* and *U.S. Containment Policy and the Conflict in Indochina*.

His works have had significant influence both within and outside academia, reaching wide public audiences and stimulating thinking about the United States' past role in Southeast Asia and its continuing responsibilities there.

Dr. Duiker received his B.A. in political science from Dickinson College in 1954, his B.S. in foreign service, his M.A. in Russian history and Ph.D. in Far Eastern history from Georgetown University in 1955, 1961 and 1968, respectively.

Before joining Penn State in 1967 as an assistant professor of history, he served from 1955 to 1958 in the U.S. Army. From 1959 to 1965 he was a foreign affairs analyst and then a foreign service officer in the U.S. Department of State, including service in Vietnam from 1964-65. He became professor in 1974 and was appointed Liberal Arts Professor of East Asian studies in 1994.

Dr. Rose has made significant contributions in the invention and development of the Penn State Ultrasonic Guided Wave Probe, a device developed for detection of defects in the skin and underlying structure of aircraft for improving air transport safety. This device also could be used to inspect various other engineering systems such as the Alaskan pipeline. This extraordinary achievement is due to his fundamental research and understanding of Lamb waves. He is considered in the non-destructive evaluation field as an international authority in the ultrasound guided-wave method for defect detection and pattern recognition.

Dr. Rose received his Ph.D. from Drexel in 1969. He began his academic career at Drexel as an assistant professor in 1965 and rose to the rank of Sofia Professor. He was named Paul Morrow Professor at Penn State in 1992. He is also adjunct professor of radiology at Thomas Jefferson University Hospital and guest scientist at the National Institute of Standards and Technology.

Hayya and Secor win teaching award

Jack C. Hayya, professor of management science, and Marie Secor, associate professor of English, are the 1996 winners of the Graduate Faculty Teaching Award.

The award recognizes tenured faculty members who have excelled both in teaching at the graduate level and in supervising thesis work of graduate students.

Dr. Hayya has taught courses in business statistics and operations management at the graduate level and directed the research of 20 doctoral candidates and about 10 master's candidates. His former students have gone on to become deans and department heads at universities across the United States as well as captains of industry.

In recommending him for the award, his former students noted that Dr. Hayya takes an intensive pedagogical approach. He is always on the job with them, they said, even after they graduate.

Dr. Hayya also emphasizes the value of precise communication to his students. He makes a special effort to critique and work with students on their writing.

A specialist in aspects of inventory theory, Dr. Hayya has been a member of the Penn State faculty since 1967. He was honored in 1989 with the First Achievement in Diversity Award presented by The Smeal College of Business Administration minority staff and students. He is a Fellow of the Decision Sciences Institute (DSI) and was elected to a two-year term as vice president at-large of the organization in 1992. He currently serves DSI as a member of the Planning Committee for International Affairs.

In the past five years, Dr.

Secor has directed six doctoral candidates' dissertations and has placed four of those students in tenure-track faculty positions at research universities.

She has served or is serving on another 16 dissertation committees and has supervised more than a dozen M.A. theses.

Dr. Secor's students are in demand because of the training she has given them in rhetorical studies. She has assumed leadership in establishing rhetorical studies at Penn State. Specialists in rhetorical studies examine how texts are generated and how and why they have been shaped to achieve their goals. The University's program is one of the few in the nation to focus on the intersection of rhetoric with both composition theory and literary theory.

Students point to Dr. Secor's free-wheeling seminars in rhetorical theory and Victorian fiction as sources for their dissertation topics. In her seminars, the class becomes a roundtable discussion among equals in which she encourages the students to clarify their thoughts and often pushes their inquiries to unanticipated conclusions. These interchanges help students to gain focus on their work and discover what truly interests them about a particular novel or rhetorical text.

The long seminar essay she requires in her seminars often constitutes the student's first professional product. In the course of one-on-one discussions with her, the students learn to situate themselves in the critical discourse of the profession and come to understand what will lead to a publishable article.



JACK C. HAYYA



MARIE SECOR

Dr. Secor has previously been honored with the Provost's Award for Collaborative Teaching and the Liberal Arts Outstanding Faculty Award. She served as an Alumni Teaching Fellow in 1990-91 and earned the Liberal Arts Distinguished Teaching Award in 1985. She also has been recognized as an Honorary Faculty Member in Omicron Delta Kappa National Leadership Honor Society, an Outstanding Faculty Member by Golden Key National Honor Society, and Outstanding Woman Faculty by the Pan-Hellenic Council.

Browning honored with McKay Donkin Award

Barton W. Browning, associate professor of German at Penn State, is the winner of the McKay Donkin Award. The award was established in 1969 in honor of the late McKay Donkin who served as vice president for finance and was treasurer of the University from 1957 to 1968. It is presented to the full-time faculty or staff member or retiree who has contributed most to the "economic, physical, mental, or social welfare of the faculty" of the University.

Dr. Browning is the immediate past chair of the University Faculty Senate. Before that appointment, he was vice chair of the Senate Committee on Academic and Athletic Standards; the College of the Liberal Arts representative to the Senate Council; chair of the Academic and Physical Planning Committee; and served as an elected member of the Faculty Rights and Responsibilities Committee.

He also has served as the faculty Fulbright adviser and is credited with initiating measures that led to Penn State's rise to the top nationally in the number of Fulbright awards.

In 1986-87 he served as a faculty representative on the president's Planning and Budget Advisory Committee and was appointed to the University Future Committee for 1992-93. As a member of the Future Committee, he was intensively involved in the review of University-wide financing issues that had a direct influence on the faculty. He also serves as adviser to the Penn State Squash Club, whose membership includes numerous faculty members.

Four years ago, Dr. Browning chaired the successful drive to initiate and implement the Penn State Faculty/Staff Club. A nominator said the club has helped define the sense of the institution, adding, "the club has become the vehicle to share the collegial exchange of ideas and has become representative of the fact that all faculty and staff of any background can join together in camaraderie. It was Browning's express intent to make the club as inclusive as possible, and he thus contributed significantly to the ideals of the University."



BARTON W. BROWNING

West named Alumni Teaching Fellow Award recipient

Harry H. West, professor of civil engineering at University Park, will receive the Alumni Teaching Fellow Award this year.

A Penn State graduate, Dr. West has taught structural analysis and design at Penn State for more than 30 years, has won several other teaching awards and has done award-winning research on suspension bridges. He is currently in charge of an exchange program between his department and the University of Leeds, England.

Established in 1985 to honor dis-

tinguished teaching and to encourage teaching excellence, the award was first presented in 1986.

Dr. West, said a colleague, "is perhaps the most highly regarded and respected senior faculty member in the Department of Civil and Environmental Engineering. While he has won both teaching and research awards outside the University, I firmly believe he is most proud of his teaching awards within the University community."

Another colleague said that Dr. West "prepares every lecture with

meticulous care and attention to detail. He sets high standards and the students respond. Anyone who receives an A in his class has earned it."

One of Dr. West's students said he is "one of the most knowledgeable professors I have ever had. Anytime a student asks a question, Dr. West provides a quick example to illustrate the area of difficulty. He encourages students to think and question whether or not answers 'make sense.' Problems are always related to real-world applications to

keep students interested and enthused about learning."

Dr. West himself said that one of the most important attributes of an effective teacher "is the ability to convey a genuine sense of excitement about the subject matter" and transfer it to the students. "Thorough preparation in all aspects of the instructional process is vital," he said. "Students should not be frustrated because an instructor has not given adequate attention to the development of the course."

West

continued from page 14

Dr. West has taught continuously at Penn State since 1958, except for a five-year period he spent in the U.S. Air Force and at the University of Illinois as a graduate student.

He has been honored several times for his teaching, winning the Christian R. and Mary F. Lindback Award for distinguished undergraduate teaching in 1990, the Penn State Engineering Society's Premier Teaching Award in 1986 and Excellent Teaching Award in 1975, and the Western Electric Fund Award of the American Society for Engineering Education for Excellence, for the instruction of engineering students, in 1977. Also, in 1993, he received the Lawrence J. Perez Memorial Student Advocate Award from the College of Engineering.

Dr. West has written two undergraduate textbooks—*Analysis of Structures: An Integration of Classical and Modern Methods and Fundamentals of Structural Analysis*—which are used at many colleges and universities.

In 1970, for his research on suspension bridges, he was the co-recipient of the American Society of Civil Engineers' Moisseff Award. Over the years, his research has dealt with static and dynamic analysis of suspension bridges and other cable-supported bridge and roof structures, temperature effects in multi-story steel frames and prestressed concrete box girders, overload and failure analysis of prestressed concrete segmental box girder bridges, bridge design life, and the consequences of overload on prestressed concrete highway bridges.

He has a 1958 B.S. degree and a 1961 M.S. degree in civil engineering, both earned at Penn State, along with a 1967 Ph.D. degree in civil engineering from the University of Illinois.



HARRY H. WEST

Mumma recognized as mentor to others

Ralph O. Mumma, Distinguished Professor of environmental quality in the Department of Entomology, College of Agricultural Sciences, has been chosen to receive the 1996 Howard B. Palmer Faculty Mentoring Award.

The Palmer Faculty Mentoring Award honors a faculty member who effectively guides and nurtures the collegial and professional development of junior faculty.

Dr. Mumma received his Ph.D. in organic chemistry from Penn State in 1960. On the faculty since 1961, he is an international expert in chemical pesticide detection and environmental quality. His research has led to new discoveries that have improved the assessment of environmental quality by industry and regulatory agencies.

According to his colleagues, Dr. Mumma exemplifies the finest qualities of a faculty mentor.

His nomination states that "He jumps at the chance to collaborate on new projects or to involve new faculty in his own research projects. He selflessly contributes time, equipment and even monetary resources to aiding new faculty to overcome barriers in establishing new research areas at Penn State."

As one colleague elaborated, "At one point several years ago, I was in danger of losing a technician whom I was trying to encourage to enroll as a graduate student. Dr. Mumma stepped in to provide the financial means for me to retain that technician, who has since received his M.S. and is working on his Ph.D. with funding from the National Science Foundation. Dr. Mumma saw the potential in that young scientist and, thereby, in my program."

Dr. Mumma is known as a "willing and excellent" member of graduate student thesis committees, due to the encouragement and advice he offers them. He goes out of his way, as well, to interact with and encourage the undergraduate students in the labs of junior faculty.

He also is willing to offer advice on teaching skills and on the professional development of junior faculty. He shares his view of science and of how good science can be compatible with

University evaluation processes. He is willing to critique oral presentations, papers, grants and dossiers.

"His quiet advice," wrote one colleague, "carefully thought through and delivered in comfortable settings, has helped me prioritize conflicting issues."

Dr. Mumma emphasizes the need to balance professional demands with personal life.

"Many times, when I thought what I needed



RALPH O. MUMMA

was advice on publishing, grantsmanship, or some other complication of the job," noted one colleague. "Dr. Mumma helped me put the stress in perspective. He actively encouraged me to spend time with my family and to become involved in community projects. Because of his example and urging, I developed an international perspective to my research work that has greatly increased my job satisfaction and vastly stretched my personal growth."

The Palmer Faculty Mentoring Award is named for Howard B. Palmer, senior associate dean of the Graduate School of the University from 1985 until his retirement in 1991.

Adult student overcomes major obstacles to excel

Holly R. Bradford, a junior from east Boston majoring in administration of justice, will receive the University's 1996 Outstanding Adult Student Award. The award honors adult students who have overcome obstacles and multiple demands on their time to return to college and excel academically.

Ms. Bradford has not only successfully faced the same challenges as other adult learners, she also has overcome a turbulent history of prison sentences and a former addiction to heroin and cocaine.

That addiction came to a dramatic end nearly 10 years ago when a Massachusetts judge sent her to a therapeutic community called Meridian House in lieu of a 22-year prison term stemming from drug-related felonies.

Ms. Bradford is also coping with the constraints of having a teenage daughter, a tight financial budget and a diagnosed learning disability. Not many would willingly add to these pressures the demands of attending a university, but Ms. Bradford is doing just that. In fact, her success at Penn State has been so tremendous, it has earned her a spot on the dean's list and a slot in the University Scholars Program as well.

Despite her busy schedule as a mother and an honors student, Ms. Bradford also has found time to volunteer for several local rehabilitation programs. She spends 20 hours each week at a maximum security prison for women in Muncy, where she does therapeutic work with inmates. In addition, each semester she talks to hundreds of Penn State students and community groups about her experiences with addiction and recovery.

Although Ms. Bradford admits that "being a 32-year-old woman with eight felony convictions, seven tattoos and a history of drug addiction" might sound like a script for a TV movie, she said she has other plans instead. After finishing at Penn State, she wants to couple her education with her knowledge of drug addicts' problems to run a drug treatment center in Massachusetts. There she plans to establish a heroin recovery program.

Professors describe Ms. Bradford as both "a devoted mother" and "a serious and committed student." Instructors also applaud her ability to deal with complex materials without getting lost in details.

Academic Awards Convocation 1996

These awards will be presented at the Academic Awards Convocation at 2 p.m. Sunday, March 31, at the Nittany Lion Inn on the University Park Campus

Faculty/Staff Alerts

"Chocolate Chase" is on

The 18th annual Chocolate Chase, a five-mile race sponsored by students and the Office of Student Affairs in the College of Medicine at The Milton S. Eshersky Medical Center, will be held at noon Saturday, April 13.

The race will start and finish on The Hershey Medical Center campus. A one-mile Fun Run will be held at 1 p.m.

Proceeds from the race will benefit a memorial scholarship fund at the medical center in memory of Dr. Thomas V.N. Ballantine, the original founder and former director of the race, who died in 1990. The scholarship fund will assist medical and graduate students in need of financial assistance in meeting the high costs of their education.

Pre-registration is \$10 by mail and must be received by March 30. T-shirts are guaranteed to the first 600 pre-registrants.

ID card location moves to HUB

Starting April 1, Penn State ID card pictures for new employees will be taken at the ID HUB Office in Room 110, Hertzell Union Building, University Park, across from the Fishbowl. This is a change from the current procedure of taking faculty and staff ID card pictures on the third floor of Rider Building. Pictures for replacement of lost cards will continue to be taken at the ID HUB Office. This consolidation of all ID card functions will facilitate the transition to a new photo-ID technology. Pictures can be taken anytime between 7:30 a.m. and 6 p.m., weekdays during the semester, and between 8 a.m. and 5 p.m., weekdays other times of the year. For more information call (814) 865-7590.

Shaver's Creek programs

■ Maple sugaring

What better way to celebrate spring than to enjoy the great outdoors? Learn the entire process of maple sugaring from tree to table. From 11 a.m. to 4 p.m. Saturday, March 30 participants can learn to identify the sugar maple, tap a tree and boil down the sap to a sweet syrup ... then taste the final product. The fee is \$3.50 for non-members. Registration is required by calling Shaver's Creek at (814) 863-2000 or (814) 867-3424.

■ Pledge-A-Bird

The Raptor Center at Shaver's Creek also has an outdoor event that you can enjoy from any location. Pledge-A-Bird '96 is the seventh annual bird count, which benefits the Raptor Center. Participants take pledges toward the number of bird species they observe during a 24-hour period on Saturday, April 27. Join the flock and register before April 25. For more information on the event, call the number listed above.

Upcoming HRDC courses

Several courses are being offered by the Human Resource Development Center.

To see a description of each course, check the HRDC course catalog or log-in to the *Intercom* Web site from the home page of the Office of University Relations at URL <http://www.ur.psu.edu>. To register for free courses, please

News in Brief

Catholic Fellowship meeting

On Tuesday April 2, Paul A. Blum from the Department of Public Information will lead a discussion on "Understanding the Schism Between Christian East and West." The talk will begin at noon in room 212 of Eisenhower Chapel and is sponsored by the Penn State Catholic Faculty and Staff Fellowship Group.

Cigarette smokers needed

The Department of Biobehavioral Health is looking for male and female cigarette smokers ages 18-65 to participate in a research study. Smokers ages 30-65 are of particular interest.

This is NOT a quit smoking study. Participants will be asked to complete questionnaires at home and to attend a

call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

Cart Smart Shopping Tour

Learn a low-fat navigation of the supermarket aisles in this American Heart Association program. Meets from 4:30-5:45 p.m. Thursday, April 4. Cost is \$5, reimbursable to HealthAmerica HMO participants. To register, contact Jan Hawbaker at (814) 865-3085 or jah1@oas.psu.edu.

LIAS seminars

The University Libraries is offering the following series of seminars during April to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM. LIAS searching techniques that enable users to maximize their searching power will also be presented.

In an effort to accommodate as many participants as possible, some sessions are offered more than once. To register or learn more about the seminars, send an e-mail to signup@psulias.psu.edu. If you have any additional questions, contact Doris Herr at (814) 863-0325. Seating is limited so register early! Information on the seminars can also be found by typing HELP WORKSHOP when using LIAS, or by logging into the *Intercom* Web page at www.ur.psu.edu/intercom/home.html.

■ Belstein CrossFire - organic chemistry

April 16, 1-2 p.m., Reference Lecture Room, East Pattee Library.

■ Chemical Abstracts

April 2, 1:30-3 p.m., Reference Lecture Room, East Pattee Library.

■ Citation Indexes - science, social science and arts and humanities

April 9, 1:30-3 p.m., Reference Lecture Room, East Pattee Library.

■ Engineering databases

April 2, 6-8 p.m., Tower Room 402, Central Pattee Library.

■ Music databases

April 5, 10 a.m.-noon, Tower Room 402, Central Pattee Library.

Nominations needed

Nominations for the Vice President's Award for Outstanding Service to Students and the Vice President's Award for Quality Improvement are being accepted until Tuesday, April 2. For more information or to obtain additional nomination forms, call (814) 865-0181.

Fulbright applications

Anyone interested in obtaining an application packet for the Fulbright Program for 1997-98, should contact Mary Gage, Fulbright Program adviser, at hmg1@oas.psu.edu or by phone at (814) 863-8199.

90-minute laboratory session to complete questionnaires and smoke a cigarette of their usual brand. All participants who complete the study will be compensated.

Anyone interested in participating or who would like more information about this study, please contact Janine from 9 a.m. to 6 p.m. at (814) 865-0089. Please leave a message on the answering machine if no one is available to take your call.

Wildlife conservation talk

A talk on biodiversity and wildlife conservation featuring Richard Yahner, professor of their usual brand. All participants who complete the study will be compensated. Anyone interested in participating or who would like more information about this study, please contact Janine from 9 a.m. to 6 p.m. at (814) 865-0089. Please leave a message on the answering machine if no one is available to take your call.



By DOUG STANFIELD
technology editor

Freebie

A new newsletter that could help guide you through the sometimes confusing tangle of the Web is now available at URL <http://www.hv.ac.uk/libWWW/irm/irm.html>

NOTE: If you type the above address into your browser, make sure the 'Ws' in 'libWWW' are uppercase.

The *Internet Resources Newsletter*, produced by Heriot-Watt University Library in Edinburgh, Scotland, informs readers about new and required Internet resources of interest to the higher education community. It also attempts to provide occasional guidance on various aspects of electronic information. It may be of use to anyone interested in the more serious aspects of the Internet and its resources.

For those without a Web browser, like Netscape or Mosaic, an e-mail version of the newsletter is available by sending a message to the following address (with no subject): w3mail@gmd.de. The body of the message should read:

get <http://www.hw.ac.uk/libWWW/irm/irm18.html>
get <http://www.hw.ac.uk/libWWW/irm/irm18.html>
get <http://www.hw.ac.uk/libWWW/irm/irm18.html>
get <http://www.hw.ac.uk/libWWW/irm/irm18.html>

Data Center site

The Pennsylvania State Data Center (Penn State Harrisburg) Web site contains the information you'd expect from Pennsylvania's official source of population and economic statistics.

According to the center's information page, "... If you are formulating a marketing plan, relocating or starting a business, developing a customer profile, working on a public policy initiative or just want a demographic figure, The Pennsylvania State Data Center has the information you need."

The site is well designed and easy to navigate. If population statistics are just the thing you need to finish that report or paper, visit at <http://howard.hbg.psu.edu/pdsdc/pdschome1.1.html>

If you know of an unusual or particularly innovative use of the Web, please send the URL to dms9@psu.edu

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, March 28

■ Theatre Workshop In Diverse Cultures, 3 p.m., 6 Arts Bldg. A staged reading of the classic Indian play, "Shakuntala." Also, March 29 at 5 p.m.

■ The play "Dice of Bone," 8 p.m., Paul Robeson Cultural Center. Also March 29 and 30. Tickets available at the Robeson Center. School of Music, 8 p.m., Recital Hall. Penn State Trombone Choir/University Brass.

Friday, March 29

Center for the Performing Arts, 8 p.m., Schwab Auditorium. Julliard String Quartet. For tickets, call (814) 863-0255.

University Resident Theatre Company, 8 p.m., The Playhouse. "She Loves Me." Through April 6. For tickets, call (814) 863-0255.

Saturday, March 30

College of Engineering Open House, 9 a.m.-3:30 p.m.

Shaver's Creek, 11 a.m.-4 p.m. Old-Time Sugaring Demonstration Open House. Call (814) 863-2000.

School of Music, 1:30 p.m., Recital Hall. Penn State Horn Ensemble.

School of Music, 8 p.m., Recital Hall. Stephen Grazzini, solo recital.

Thursday, March 31
School of Music, daylong event, Recital Hall. Day of Percussion.

Tuesday, April 2

Catholic Fellowship Meeting, noon, 212 Eisenhower Chapel. Paul A. Blum on "Understanding the Schism Between Christian East and West."

School of Music, 8 p.m., Recital Hall. Penn State Philharmonic. For tickets, call (814) 865-0431.

Wednesday, April 3

Center for Women Students, noon, 120 Boucke Bldg. Film/Discussion: "Out of Suburbia," facilitated by Sabrina C. Clapman.

Thursday, April 4
Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. Penn State Women's Chorus.

Martin Luther King Jr. Memorial Lecture, 7:30 p.m., Paul Robeson Cultural Center. Clayborne Carson, speaker.

Friday, April 5

Shaver's Creek, 7 p.m. Frog Pond Foray. For details, call (814) 863-2000.

Saturday, April 6

Shaver's Creek, 1 p.m. Who Eggs Is It? For details, call (814) 863-2000.

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Beth Lombardi on "Baroque Art at the Palmer Museum."

SEMINARS

Thursday, March 28

■ Jewish Studies Workshop, 7:30 p.m., Jewish Community Center, 620 E. Hamilton Avenue. Jonathan Steinberg on "Jews and Germans."

Friday, March 29

University Records Management Program, 10 a.m., C6 Patent Library. Policies and Procedures Affecting Records and Information Management at Penn State.

Rainbow Forums, 3:30 p.m., Wilkinson Lounge, Eisenhower Chapel. "Research on Gay, Lesbian and Bisexual Issues."

Geography's Coffee Hour, 4 p.m., 206 Walker Bldg. Adam W. Burnett on "Modes of Variability in the Northern Hemisphere Circumpolar Vortex and Surface Climate."

Monday, April 1

University Records Management Program, 9 a.m., 221 Chambers Bldg. "Policies and Procedures Affecting Records and Information Management at Penn State."

Also at noon in 324 Ag Science and Industry Bldg.



At Pattee

This and other sculptures by Sylvia Romig Apple will be on display in the East Corridor Gallery at Pattee Library on the University Park Campus April 1 to 30.

Continuing and Distance Education, noon, 106 Mitchell Bldg. Jerrold Maddox on "Looking Over the Cutting Edge: Designing for the New Internet."

Comparative Literature, 12:15 p.m., 101 Kern Bldg. Lisa Ruch on "The Authority of Classical Antiquity in the De Ortu Waluani."

Condensed, Atomic and Molecular Physics, 3:30 p.m., 339 Davey Lab. J. Levy on "Ultra-fast Near-Field Spin Microscopy of Nanostructures."

Accounting Research, 3:30 p.m., 333 Beam Bldg. Karen K. Nelson on "The Association Between Strategic Reporting Through Present Value Discounting and the Pricing of Property-Casualty Insurance."

Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Building. Ted Krauthammer on "Computational Activities in Short Duration Dynamics."

Edna P. Bennett Lecture on Developmental Intervention, 4 p.m., Living Center, Henderson Building. Edward Seidman on "Normative School Transitions Among Poor, Ethnically Diverse Urban Adolescents."

■ Spanish, Italian and Portuguese, 8 p.m., 22 Deike Bldg. John W. Kronik on "Strains of Postmodernism in the Modern Narrative."

Tuesday, April 2
University Records Management Program, 9 a.m., 128 Arts Bldg. "Policies and Procedures Affecting Records and Information Management at Penn State." Also at 2 p.m. in 258 Hammond Bldg.

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. T. Kyle Vanderlick on "Performance of Customized Molecular Coatings."

■ Center for Russian and East European

Studies, noon, 102 Weaver Bldg. Elizabeth Pond on "Poland is not Yugoslavia. Neither is Ukraine."

Geosciences, 3:30 p.m., 112 Walker Bldg. John Hayes on "The Biochemical Cycle of Methane at the Archean-Proterozoic Transition."

Ecology, 3:45 p.m., 107 Warik. Jonathan Ferdinand on "Ozone Sensitivity and Leaf Morphology in Black Cherry: Genotype, Tree Size and Light Environment."

Graduate Program in Nutrition, 4 a.m., 5-239 Henderson Bldg. South. Mike LeVere on "Diet, Genes and Coronary Heart Disease - Can We Predict Who Will Benefit from Low-Fat Diets?"

Food Science, 4 p.m., 117 Borland Lab. Robert Besimian on "Experiences with Revising FD SC 413."

Wednesday, April 3
University Records Management Program, 10 a.m., 124 Sparks Bldg. "Policies and Procedures Affecting Records and Information Management at Penn State." Also at 4 p.m. in 102 H&H East.

Continuing and Distance Education, 11:45 a.m., 502 Keller Bldg. Jane S. Noel on "Technology has Effectuated the Ways Distance Education is Implemented."

The Science, Technology and Society Program, noon, 118 Willard Bldg. Jack Lautner on "Digital Imaging Manipulation: Is the Genre Out of the Bottle?"

Physics Graduate Association, 5:30 p.m., 101 Center for Academic Computing. 3 p.m., 101 Agricultural Sciences Building. Jack Wilson on "Re-engineering Undergraduate Education: Using Technology to Create New Learning Environments for Students."

Physics Graduate Association, 5:30 p.m., 101 Osmond Lab. William Beale on "Product R&D: A Physicist's Piece of Cake?"

Marker Lecture in Evolutionary Biology, 8:30 p.m., 111 Warik Lab. Walter M. Fitch on "Scientific Creationism: An Oxymoron."

Thursday, April 4
University Records Management Program, 10 a.m., 807A BBA. "Policies and Procedures Affecting Records and Information Management at Penn State." Also at 1 p.m. in 101 Carnegie Bldg.

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. John Barrett on "The Geometry of Spin Networks."

Physics, 3:30 p.m., 101 Osmond Lab. Jack Wilson on "Studio Physics."

Ecology, 3:45 p.m., 108 Warik. Carolyn Mahan on "Effects of Forest Fragmentation on the Behavior and Demographic Structure of the Eastern Chipmunk."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Neil Jones on "Computability and Complexity from a Programming Perspective."

Marker Lecture in Evolutionary Biology, 4 p.m., 102 Classroom Bldg. Walter M. Fitch on "The Molecular Clock."

Thomas C. Kavanagh Memorial Structural Engineering Lecture, 7:30 p.m., Applied Research Laboratory Auditorium. William McGuire on "Structural Engineering: Some Trends and Future Directions."

■ Penn State Objectivist Club, 8 p.m., 10 Sparks Bldg. Gary Hull on "Your Professions: War Against the Mind: The Black Hole of Post-Modernism and Multiculturalism."

Friday, April 5

University Records Management Program, 9 a.m., 517A Classroom Bldg. "Policies and Procedures Affecting Records and Information Management at Penn State." Also at 3 p.m. in 26 Hoeller Bldg.

Marker Lecture in Evolutionary Biology, 10 a.m., 214 Boucke Bldg. Walter M. Fitch on "Adaptive Evolution in Viruses."

Ecology, 11 a.m. David Karow, speaker. Call for location, (814) 865-2054.

Geography Coffee Hour, 4 p.m., 206 Walker Bldg. Paul F. Starrs on "Things Western: Intermountain Growth and the Decline of California."

CONFERENCE

Thursday, March 28

Managing Business Critical Information, The Penn State Scantillon. Through March 29. Research in Practice: Using What We Know, The Niles Lion Inn. Through March 29.

Friday, March 29

■ Medieval Studies Conference, "From Moravia to Moscow: The Medieval Slavic World." Through March 30.

Football Coaches Clinic, The Penn State Scantillon. Through March 30.

Saturday, March 30

Teaching and Learning with Technology Symposium, 9 a.m.-4 p.m. For information, call (814) 863-7763.

Monday, April 1

Master Food Handlers, Agricultural Administration Bldg. Through April 4.

Tuesday, April 2

PCCEA Annual Meeting, Nittany Lion Inn. PA Poultry Sales & Service, Nittany Lion Inn. Through April 3.

EXHIBITS

In Art Cases:

International Mixed Media, diverse art, cultural exhibits and crafts. Through April 7.

In Art Panels:

Art Panels: Painters, landscapes painted in plain air in the woods surrounding his hometown. Through April 7.

Kern

Kern Cases: Heidi Zimble, porcelain clay and stoneware with hand painted decorations. Through April 7.

■ Slavic Eggs, dozens of intricately designed Ukrainian Easter eggs, called pysanky. Through April 16.

Kern Panels:

Roberta Moore, photography, black and white portraits of the human form. Through April 7.

Paul Robeson Cultural Center
An exhibition commemorating the life and times of Frederick Douglass featuring 72 prints by Stephen Clark. Through April 5.

Zoller Gallery

MFA Exhibition - Dahn Hunt. Through April 14.

■ Reflects an international perspective

Penn Staters

S. Ashok, professor of engineering science, delivered an invited paper at the 8th International Workshop on the Physics of Semiconductor Devices in Delhi, India. His talk was titled "Defect Engineering in Semiconductors."

He also chaired the session on device processing at the 4th International Conference on Semiconductors and IC Technology in Beijing, and presented a paper on "ECR Hydrogen Plasma Treatment of Si: Defect Activation Under Thermal Anneal."

Abhay Ashtekar, holder of the Eberly Family Chair in physics and director of the Center for Gravitational Physics and Geometry, recently gave the plenary lecture, "Quantum Theory of Gravity," at the inaugural conference for the Pacific Center of Theoretical Physics in Seoul, Korea. During a visit to the Seoul National University, Dr. Ashtekar presented a seminar titled "A Generalized Wick Rotation for Gravity."

Gordon F. DeJong, Distinguished Professor of sociology and director, graduate program in demography, was one of 15 invited international participants at a United Nations symposium on urbanization and migration in developing countries. He also presented a paper on "Migration Decision-Making in Rural Thailand" during a collaborative research visit at the Institute for Population and Social Research, Mahidol University, Thailand.

J.D. Dunbar, manager of programs for the Pennsylvania Rural Leadership Program in the Department of Agricultural Economics and Rural Sociology, was recently commended by the Alabama State Legislature and Pennsylvania through the Alabama-Pennsylvania Leadership Ambassador Program.

Andrea P. Hart of Penn State Abington-Ogontz Office of Continuing Education and **William Asbury**, vice president for student affairs, have been elected president and president-elect, respectively, of the Pennsylvania Black Conference on Higher Education (PBCOHE). Both will serve for two years. The PBCOHE is the major educational advocacy organization in Pennsylvania for blacks and other minorities.

Waterbury Professor of Education Henry Giroux's book, *Living Dangerously*, has been named an "Outstanding Book on the Subject of Human Rights in North America" by the Gustavus Myers Center for the Study of Human Rights.

Akhlesh Lakhtakia, associate professor of engineering science and mechanics, was one of four keynote speakers at the First International Conference on

Computer Simulation held at the American University of Beirut, Lebanon. He spoke on "Optics of Chiral Media, and Simulation of Linear and Nonlinear Properties."

J. Daniel Marshall's book *When Best Doesn't Equal Good Enough* has been awarded the Outstanding Research and Publication Award from the American Society of Curriculum and Development. Dr. Marshall, associate professor of education, received the award because his publication provides a genuine contribution to the scholarship on educational change and renewal.

Gary L. Messing, director of the Particulate Materials Center and professor of ceramic science and engineering, has been elected to a three-year term as the trustee for the Basic Science Division on the board of trustees of the American Ceramic Society.

David Passmore, professor of education, has been selected as the 1996-1997 University Council for Vocational Education Visiting Scholar. This award is given in recognition of Dr. Passmore's outstanding contributions as a scholar in the field of vocational and technical education.

John H. Fazzar, professor emeritus of biochemistry and molecular biology, presented an invited lecture titled "Comparisons of the Properties of Concanavalin and Anti-Glucose Antibodies and Relation to the Detection of Tumors" at the XIII International Symposium on Glycobiology. He also presented an invited lecture titled "Antibodies for the Determination of the Configuration of Carbohydrates" at the International Congress of the Pacific Chemistry Societies.

Kyle Peck, associate professor of education, recently received the President's Award from the Pennsylvania Association for Supervision and Curriculum Development in recognition of his longstanding leadership in reshaping Pennsylvania's educational vision and future.

Raja V. Ramani, professor and head of the Department of Mineral Engineering, has been appointed to the Department of Labor's National Advisory Committee on the Elimination of Pneumoconiosis among Coal Miners. The committee will advise the secretary of labor on improved methods for eliminating black lung and silicosis among underground and surface miners.

Calypandri R. Rao, professor of statistics, holder of the Eberly Family Chair in Statistics, and director of the Center for Multivariate Analysis, has been awarded an honorary doctorate of economics by the

University of Munich, Germany. Dr. Rao is internationally acknowledged as one of the world's top five statisticians for his multifaceted distinctions as a scientist, teacher, mathematician and researcher. While in Munich, he presented lectures titled "Experiments in Quality: The Taguchi Phenomenon" and "The Fascination of Statistics."

Rustum Roy, Evan Pugh Professor of solid state and professor of geochemistry, gave the opening plenary addresses at three international conferences. At the International Sol-Gel Workshop in Madras, India, and the International Refractories Conference in New Delhi, India, he gave distance presentations prepared beforehand at Penn State. At the International Workshop on Solvothermal Hydrothermal Reactions in Takamatsu, Japan, he presented "Fifty-Year Perspective on Hydrothermal Research."

Lee Smolin, professor of physics and a researcher in the Center for Gravitational Physics and Geometry, presented a series of lectures while visiting Germany, Italy and Mexico. In Germany, Dr. Smolin presented three lectures in Warsaw while attending a workshop on Canonical Quantum Gravity titled "Non-Perturbative Quantum Gravity." He gave an invited talk titled "Pluralistic Quantum Cosmology" at a conference on "Quantum Theory Without Observers" in Beuel, Germany.

In Italy, Dr. Smolin lectured at the School on Quantum Gravity and Cosmology in Erice. In Trieste at the SISSA, he presented a series of eight lectures on quantum gravity. In Mexico, while attending the Conference on Complexity and Binary Networks, he presented four lectures titled "Applications of Self-Organized Criticality to Cosmology, Complexity and Spiral Structures in Galaxies."

Bernhard R. Tittmann, Schell Professor in engineering science and mechanics, is a member of the Research Equipment Grant (REG) Awards advisory panel for the Mechanics and Materials Program in the Directorate of Engineering at the National Science Foundation. The REG Award is for research equipment that will improve the quality or broaden the scope of the research and education to be conducted at the proposing institution.

Steven H. Zaitz, professor of human development in the Department of Human Development and Family Studies, has received the 1995 Award for Scientific Merit from the County Council of Jönköping, Sweden. He and **Boo Johansson** of the University College of Health Sciences in Jönköping shared the award for their research on the incidence and prevalence of dementia among the "oldest old" — those age 84 and older.

25-year Awards



Judith Bailey



Peggy Conrad



Betzy Wilson



Roger Cartwright



Kathleen R. Mourant

Anthony Petro

Observing 25 years of service at the University are, from left, Judith Bailey, staff assistant, Department of Geosciences; Peggy Conrad, staff assistant, Department of Mineral Engineering; and Betzy Wilson, administrative assistant in the Department of Materials Science & Engineering, all in the College of Earth and Mineral Sciences; Roger Cartwright, group leader, Addressing Services; Kathleen R. Mourant, research assistant in the Intercollege Materials Research Laboratory, Office of the Senior Vice President for Research and Graduate Education; and Anthony Petro, assistant to the financial officer, College of Arts and Architecture.

Korean DMZ has all the ingredients to become an ecosystem reserve

By SCOTT TURNER
Public Information

If you want to retreat to unspoiled nature, consider a visit to the Korean Demilitarized Zone.

A professor is trying to turn the DMZ into a series of nature preserves, wildlife sanctuaries, international parks and "human ecosystem reserves," where people live in harmony with their natural surroundings.

"The result is to use biodiversity conservation to facilitate the peaceful and prosperous integration of the two Koreas," K.C. Kim, who heads the Center for BioDiversity Research in the Environmental Resources Research Institute, said.

"These proposed trans-frontier reserves could become the last memorial to the Korean War."

For more than 40 years, the DMZ's uninhabited and protected landscapes have harbored plants and animals, including endangered and threatened species. Because development is rapidly destroying biodiversity in the Korean peninsula, Dr. Kim said the plants and animals of the DMZ may soon be the sole source of native species for rebuilding the region's once-rich natural diversity. Outside of the DMZ, some of those species may be already wiped out.

Dr. Kim calls his effort the Korea Peace Bioreserves System. He is using a start-up grant from The Asia Foundation



K.C. Kim, head of the Center for BioDiversity Research in the Environmental Resources Research Institute wants to turn the ecologically undisturbed Korean Demilitarized Zone into a series of nature preserves, wildlife sanctuaries and international parks.

Photo: Greg Grieco

to develop the project and lobby government officials from several nations.

Last fall, Dr. Kim traveled to Japan for the 1995 Northeast Asia and North Pacific Environmental Forum. There he pitched his project to representatives from Japan, Mongolia, North Korea, South Korea, Russia and the United States, and began a dialogue with North Korean scientists.

Dr. Kim is also communicating with officials at the U.S. Department of State and with diplomats from several countries. He is looking for their endorsement of the project, particularly an international conference to discuss the Korea Peace Bioreserves System and visit the DMZ. The endorsement is critical to

his efforts to raise funds for the project.

However, Dr. Kim's efforts will stall unless North Korea and South Korea formally consent to discuss the Korea Peace Bioreserves System. Dr. Kim has developed an international steering committee for the project and is developing an advisory board to guide the project's activities and to help the steering committee secure formal consent between north and south. So far South Korea is interested, but North Korea has avoided official discussion, he said.

The DMZ was created by a 1953 armistice agreement to separate the two Koreas. It is the property of neither nation.

With the DMZ as its 480-square-mile core, Dr.

Kim envisions a system of biodiversity reserves that would encompass a swath of about 800 square miles across the Korean Peninsula, from the Yellow Sea to the Sea of Japan. The DMZ contains rugged mountains in the east and low hills and plains in the west, including two major rivers and a sprawling salt marsh.

Once the DMZ system is established, Dr. Kim anticipates the use of "greenways," or natural corridors, to link it with nearby national parks and preserves that already exist in both Koreas.

Kim is the architect of South Korea's plan to save what's left of its own plants and animals. The plan, called Biodiversity Korea 2000, was completed in 1994.

Cardiologists are studying effects of long-term bedrest

Researchers at The Milton S. Eisenhower Medical Center and in the College of Agricultural Sciences are putting people to bed for two weeks to learn more about how long-term bedrest affects the cardiovascular system. They hope the information will provide insights to how space-flight and the lack of gravity affects astronauts.



In a study funded by the National Aeronautics and Space Administration (NASA), 45 volunteers—20 to 40-year-old men—are being confined to bed for two weeks to mimic the conditions of weightlessness. In the meantime, cardiologist Lawrence Sinoway, M.D., professor of medicine, will conduct various tests to measure how the body, particularly the cardiovascular system, responds to the lack of gravity.

Weightlessness wreaks havoc on the body. According to Dr. Sinoway, astronauts may have difficulty standing after they return to earth. They do not sleep well, and some develop muscle atrophy, reducing their ability to exercise. Space-bound astronauts typically redistribute their body's fluid volume, sometimes resulting in puffiness and faces. Extended bedrest yields similar results.

Sinoway and his co-workers will have the volunteers perform various exercises before and after bedrest. They will track the effects of bedrest on the volunteers' nervous system and look at ways to change and even reverse those effects.

The investigators expect to find increased sympathetic nervous system responses—such as heart rate and blood pressure—to exercise following bedrest, that can be reversed by exercise conditioning.

"We want to see if exercise burns on the nervous system after bedrest," Dr. Sinoway said, explaining that this will suggest that spaceflight alters and exaggerates how the nervous system responds to stress function. "We are also interested in whether these subjects fatigue more easily during exercise after bedrest. If this occurs, we will try to improve this situation, using exercise conditioning."

Astronomers make discovery using new method to probe pulsars

Astronomers using a new method for probing rapidly spinning neutron stars known as pulsars, made possible by the Hubble Space Telescope, have revealed unexpected non-thermal radiation coming

from a middle-aged pulsar and, for the first time, have measured the surface temperatures of two old pulsars.

The method, which allows astronomers to detect emissions from these stars in optical and ultraviolet

wavelengths, also revealed that an unexplained heating mechanism is operating deep inside the oldest neutron stars in the sky.

The research was done by France Cordova, chief scientist at the National

Aeronautics and Space Administration and professor of astronomy and astrophysics, and her colleagues at Penn State, George Pavlov, visiting professor, and Guy Stringfellow, postdoctoral fellow.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Nittany Lion fills commission post

Former football captain John Greene has been named to the Big Ten Advisory Commission, succeeding Bob White. The commission consists of former African American alumni from each Big Ten institution and was formed almost 20 years ago to address the Big Ten's desire "to address the day-to-day problems of racism and affirmative action matters faced by minorities."

Mr. Greene, a member of the 1986 National Championship team, is a financial consultant for Merrill Lynch in State College.

Student-athletes named

Five student-athletes have been named to the GTE Academic All-District II All-League teams in fall and winter sports. Senior fencer Olga Kalinovskaya-Ritterbush and junior swimmer Karen Van Tassel were named to the women's first team, while junior cross country runner Kim McGreevy was a second-team selection. On the men's side, soccer players Stuart Reid, a senior, and junior Travis Berger were chosen as members of the first team.

During the Ninth Annual Academic Achievement Awards Banquet for student-athletes the women's fencing team was named for the second consecutive year as the varsity squad with the highest grade-point average.

Defending champs

Penn State defends its NCAA Championship in men's and women's fencing this weekend when the Nittany Lions and Lady Lions compete in the national finals at Yale University.

"Play ball"

After six weeks on the road, Coach Joe Hindelang's baseball team will launch its home season on April 6 with a doubleheader against the University of Iowa.

For the Record

■ Sabrina Chapman is director of the Center for Women Students. The center was misidentified in a story about Unity Days that ran on page 3 of the March 21 Intercom.

■ The average room and board charge for the 1996-97 academic year will be \$4,170, which is an increase of \$130 (or 3.2 percent) over the 1995-96 rate of \$4,040 per academic year. The information was incorrect in a story on page 5 of the March 21 Intercom.



Industriousness took the day off

In a recent modern dance performance of "Through the Shadows" in White Building on the University Park Campus, Stephanie Sanderson, left, portrayed envy; dance instructor K.T. Huckabee Mibum was a traveler; Jessica LaLumera was also envy; Hans-Peter Nfleit (on the floor) personified greed; Rica Gugliotta displayed sloth; and Sam Umbria gave his interpretation of gluttony.

Photo: Knsle Gulder

Obituaries

Barry S. Brinsmaid, former associate professor of music, died Dec. 7, 1995 at the age of 81.

Dr. Brinsmaid, a pianist, held a bachelor of science degree in music education from Ithaca College, Ithaca, N.Y., a master of arts in music education and an Ed.D. in music education from Teachers College, Columbia University. He was a member of Phi Mu Alpha, the honorary music fraternity and Phi Delta Kappa. While at Penn State, he served as an organist for the chapel on campus and at a local church. He was an Artist Series con-

cert aide and an accompanist for various performers.

Vincent M. Burns, maintenance mechanic at the Penn State Abington-Ogontz Campus, from May 30, 1978, until his retirement Oct. 1, 1988; died Jan. 4. He was 62.

George Diaz, secretary, Administrative Services, from March 1, 1986, until his retirement Nov. 1, 1991; died Feb. 3 at the age of 48.

Linda M. Harley, clinical nurse spe-

cialist at The Hershey Medical Center, from Nov. 30, 1992. She died Jan. 31 at the age of 47.

Baron L. Jenks, associate professor of mechanical engineering in the College of Engineering, died Nov. 6, 1995 at the age of 71. He taught at Penn State from Sept. 1, 1950, until his retirement March 1, 1983.

Frederick B. Laidlaw, assistant professor of English, from Sept. 1, 1956, until his retirement July 1, 1968; died Oct. 16, 1995. He was 93.

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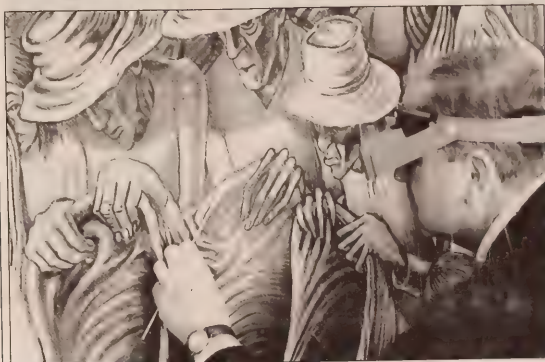
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April 4, 1996

Volume 25, Number 28

Biggers murals being preserved



Detail work

Manuel W. Theodore, a professional conservator of paintings, works to repair and restore the "Harvest Songs" murals in his studio in Baltimore. The murals have been removed from the Burrows Building on the University Park Campus and will be rehanging later this semester when the work is complete.

Photo: Courtesy of Manuel W. Theodore

By PAUL A. BLAUM
Public Information

The murals "Harvest Songs," which flank the central entrance to Burrows Building on the University Park Campus, can make even casual passersby stop in their tracks and take note. In their stark, gaunt simplicity, the murals present an excellent case for education. They show that with knowledge, humans have the potential for a productive and joyful life; without it, humanity is doomed to poverty, strife and a life "with empty bags."

The murals that have been in place for nearly five

decades, are now receiving a facelift from Manuel W. Theodore, a professional conservator of paintings and icons from Baltimore. The murals have been removed from Burrows Building and the intricate work in reconstructing them has been under way for some time.

The story behind the individual murals in the Harvest collection — "Days of the Harvest" and "Night of the Poor" — is as fascinating as the murals themselves. They were painted in 1947 by Penn State student John Thomas Biggers, an African American destined to become one of the premiere American

See "Murals" on page 13

Faculty Senate discusses salaries

By ALAN JANESCH
Public Information

Penn State's expenditures for faculty salaries and instructional benefits, give or take a couple of percentage points, have taken up virtually the same share of the University's general fund budget between 1984-85 and 1993-94.

According to a report released last March 26 by the University Faculty Senate, over the 10-year period Penn State has spent no less than 37.5 percent and no more than 39.1 percent of its general fund budget on academic salaries, including benefits. Over the same period, anywhere from 35.6 percent to 38.2 percent of the general funds budget went to instructional expenses, including benefits.

In 1993-94, Penn State spent a total of \$247.3 million on academic salaries, including benefits, and a total of \$244.3 million on instructional expenses, including benefits.

The report, prepared by the Senate Committee on University Planning, also shows that academic salaries went up 23.8 percent between 1989-90 to 1993-94. Over the same period, the state appropriation increased only 8 percent.

See "Salaries" on page 3

Gift pushes tennis facility closer to construction

Plans for the construction of a \$1.5 million outdoor tennis facility at University Park recently received a boost from two Penn State supporters who have pledged \$675,000 to the project.

Vincent and Sandra Sami of Rector, Pa., have contributed \$675,000 to the facility that will be constructed in an area off Bigler Road near the outdoor swimming pool. The site was formerly occupied by poultry barns.

The Sami gift will enable work to proceed on a tennis center with seven outdoor courts, all lighted for night play, and including one "stadium" court with seating for 1,100 spectators. In addition, the center will feature a new varsity

See "Tennis courts" on page 5

Inside

Spring forward!



Don't forget to reset your clocks to comply with daylight-saving time. You'll lose an hour of sleep this weekend when clocks are turned ahead one hour at 2 a.m. Sunday.



Special section

The Graduate Research Exhibition, held at University Park on March 15-16, displayed the work of 232 graduate students in 211 exhibits. The 49 winners of the exhibition, sponsored by the Graduate School, are listed in today's *Intercom*, in a special section on pages 9-12.

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DIVERSITY

Asian American Awareness Week runs April 8-13

A full slate of activities will light up Asian American Awareness Week, scheduled from April 9 through 13 on the University Park Campus. The events are mainly organized by the Asian American Student Coalition.

■ On Monday, April 8, the acclaimed documentary "Who Killed Vincent Chin?" which looks at the circumstances surrounding the murder of Detroit resident Vincent Chin, the trial of his murderers and the outcry of the Asian American community over the trial outcome, will be shown at 7 p.m. in 101 Classroom Building.

The documentary filmmaker Christine Choy will speak about her film and about Asian American civil rights issues at 7 p.m. Thursday, April 11, in 102 Forum Building.

■ On Tuesday, April 9, a panel of local Asian American reporters will discuss careers in journalism in a talk, "Beyond Connie Chung," at 5:30 p.m. in Carnegie Cinema. A reception will follow. The event is sponsored by African/Hispanic/Asian/Native American Student Organization in the College of Communications (AHANA/COC) and AASC.

■ On Wednesday, April 10, a panel, "P.S.: I'm Asian," will be held at 8:30 p.m. in the Pollock Rec Room, organized by Student Affairs.

■ On Friday, April 12, members of several Asian American student organizations will present a fashion show and a night of cultural performances starting at 7 p.m. in the HUB Ballroom.

■ On Saturday, April 13, workshops on topics ranging from leadership to student activism will be held from 1 to 4 p.m., with the locations to be announced. At 7 p.m., a California-based Asian American acting troupe, "hereandnow," will present a show based on Asian American issues including racism and themes of self-discovery in 101 Classroom Building.

Joining AASC will be several other Asian American student organizations such as Penn State Filipino Association and Indian Students Association.

Ebony and Ivory Week celebrates 10th anniversary with full schedule

The 10th anniversary of Ebony and Ivory Week, "Can We Unify?" to be held Monday, April 8, through Friday, April 12, celebrates the ethnic, racial and social diversity of Penn State.

Keynote speaker for the week's events is actor/activist Edward James Olmos, who will speak at 8 p.m. Wednesday, April 10, in Eisenhower Auditorium on the University Park Campus.

Mr. Olmos, best known for his Emmy-award winning role of Lt. Castillo in "Miami Vice" and teacher Jaime Escalante in the movie "Stand and Deliver," is considered by many to be America's most visible spokesman for the Hispanic community. He is one of Hollywood's leading social activists — as the unofficial mayor of Los Angeles,

he personally picked up a broom and went to work restoring shattered neighborhoods after the 1992 disturbances.

Ebony and Ivory Week, sponsored by racially and ethnically diverse Greek letter fraternities and sororities on campus, will include:

■ Monday, April 8, 7:30 p.m.: Ethnic Myths, a look at some documentary films and discussion of the stereotypes they contain. Facilitator: William Cross, professor of psychology and African and African American studies; HUB Fishbowl.

■ Tuesday, April 9, 7:30 p.m.: How does it affect me? A roundtable discussion of affirmative action, welfare, Proposition 187 and other issues, and the impact they have on people; HUB Fishbowl.

■ Thursday, April 11, 5:30 p.m.: "Living in Lion Country: Diversity or Division?" An original play directed by Charles Dumas, assistant professor of theatre arts, Department of Theatre Arts, will be presented by the department's Theatre Arts Workshop in Diverse Cultures at the Paul Robeson Cultural Center.

■ At 7:30 p.m., "The Eye of the Storm," a roundtable discussion of why people hate and how easy it is to discriminate, will be presented in the HUB Fishbowl.

■ Friday, April 12, 8 p.m.: Lollapalooza, an evening of entertainment including performances from the Jazz Club, Caribbean Student Association Dancers and the Angel Step Team, at the HUB.

Take your daughter to work on April 25

The Commission for Women is organizing Penn State's first campus-wide "Take Our Daughters to Work Day" event at University Park on Thursday, April 25.

The commission's program, which is for employees at the University Park Campus, is open to girls in grades six through 10. Participants can attend a presentation about choosing to further their education, visit their choice of three tour sites on campus, and will complete these activities with a box lunch while viewing a film on contributions of women over the years. The registration deadline to participate in this program is April 8. Since the commission's program is planned for only the morning, participants have the opportunity to spend the afternoon at the discretion of their parents/sponsors. Similar events are being planned at several CES locations.

The goal of the commission's program is to expose girls to the career paths available to them, including those in nontraditional work settings. "Take Our Daughters to Work Day is wonderful

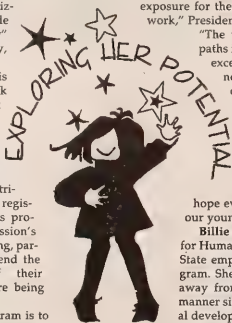
exposure for the next generation to the world of work," President Graham B. Spanier said.

"The wide variety of jobs and career paths in our University setting offers an excellent opportunity for learning, not only about employment options but also about what parents do all day long. We can build both a stronger future and stronger families through this special event. I plan to take my daughter to work on April 25 and encourage others at Penn State to do the same. I

hope everyone on campus will welcome our young women visitors warmly."

Billie S. Willits, assistant vice president for Human Resources, is encouraging Penn State employees to participate in the program. She suggests that units handle time away from the office for this event in a manner similar to attendance at professional development seminars or workshops.

For more information on Take Our Daughters to Work Day, contact the Commission for Women office at (814) 865-1683.



Gay and lesbian family life is topic of program on April 16

Deborah M. Henson, an attorney, social worker and writing instructor, will discuss "Gay and Lesbian Family Life in America" at Penn State McKeesport Campus on April 16 at 1:30 p.m. in the Frable Conference Center. The program is open to the public.

Dr. Henson is the final speaker of

the 1995-96 Cultural Diversity Speaker Series at the campus. She is vice president of the Greater Pittsburgh Chapter of the American Civil Liberties Union and a member of the National Lesbian and Gay Law Association.

She holds a J.D. in civil law from Loyola University School of Law,

New Orleans, and LL.M. from the University of California Boalt Hall School of Law. In addition, she has a master's degree in social work from Tulane University School of Social Work and a bachelor of arts in speech communication and human relations from the University of Kansas, Lawrence.

Salaries

continued from page 1

tuition rates for undergraduates at the University Park campus went up 26.5 percent and the general funds budget increased 21.8 percent (see chart below).

Academic salary increases have generally followed increases in the major sources of funding over the period, but there is no direct relationship between tuition increases and salary increases, says the report.

"Income is affected by changes in state appropriations, enrollment levels and other sources of income," the report indicates. "General funds expenditures include those for student services, physical plant, public service, research, institutional support, as well as faculty salaries and instructional support."

Another report, prepared by the Senate Committee on Faculty Benefits, shows that the average salaries of full-time University Park faculty at three colleges and lower in seven colleges than the average salaries of faculty at 31 universities participating in the Association of American Universities Data Exchange (AAUDE) (see chart at right). According to the report, average salaries are higher in the College of Communications (not counting salary figures for full professors, which are not included in this category), the College of Earth and Mineral Sciences and the Eberly College of Science.

Universities reporting salary figures to the AAUDE consist of a mix of public and private institutions, such as Northwestern University, the University of Michigan, Duke University, Carnegie Mellon University, the University of Colorado and the University of Maryland.

The report also shows internal disparities in Penn State salaries across colleges and campuses, but those disparities seem to be mirrored at other institutions of higher education across the nation, says James Miles, chair of

Comparison of Average Nine-Month Salaries by College and Rank, 1994-95

Unit/Rank	AAUDE	Penn State	1994-95
	Ave. salary	Ave. salary	% Diff.
Agriculture			
Professor	73,674	68,647	-7.0
Assoc. prof.	52,057	53,224	2.2
Asst. prof.	44,855	50,381	11.4
A&A			
Professor	59,769	60,231	.8
Assoc. prof.	44,379	43,844	-1.2
Asst. prof.	35,955	35,843	-.3
Bus. Admin.			
Professor	98,790	94,295	-4.8
Assoc. prof.	73,000	71,391	-2.3
Asst. prof.	66,856	64,155	-3.9
Commun.			
Professor	64,414	—	—
Assoc. prof.	47,743	51,598	7.5
Asst. prof.	39,593	40,131	1.3
EMS			
Professor	72,037	75,570	4.7
Assoc. prof.	49,387	54,736	9.8
Asst. prof.	43,268	43,810	1.2
Education			
Professor	64,473	62,682	-2.9
Assoc. prof.	48,796	48,102	-1.4
Asst. prof.	39,326	37,670	-4.4
Engineering			
Professor	82,638	82,899	.3
Assoc. prof.	60,484	61,499	1.7
Asst. prof.	51,942	48,841	-6.3
H&HD			
Professor	67,282	67,585	.4
Assoc. prof.	50,042	50,792	1.5
Asst. prof.	41,509	40,163	-3.4
Liberal Arts			
Professor	69,688	69,009	-1.0
Assoc. prof.	47,314	47,473	.3
Asst. prof.	39,296	38,770	-1.4
Science			
Professor	72,744	78,559	7.4
Assoc. prof.	51,806	50,969	-1.6
Asst. prof.	44,310	43,033	-3.0

Source: University Senate Committee on Faculty Salaries

Increases in Academic Salaries vs. Increases in Tuition 1989-90 vs. 1993-94

	Percentage change
Tuition rates (University Park undergraduate)	26.6 percent
State appropriation	8.0 percent
Academic salaries	23.8 percent
General Funds budget	21.8 percent

Source: University Senate Committee on Faculty Salaries

the faculty benefits committee and professor of finance.

Faculty/Staff Alerts

HRDC programs

■ Upcoming courses

Several courses are being offered by the Human Resource Development Center.

To see a description of each course, log-in to the Intercom Web site from the homepage of the Office of University Relations at URL: <http://www.ur.psu.edu/>. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

Getting Organized!

Feeling overwhelmed with paperwork, processes, projects and priorities? "Getting Organized!" will help you recognize your personal organizing style, put some strategies to work and regain a sense of control. This program meets 1:30-4:30 p.m. Tuesday, April 23, in 319 Rider Building; Cost: \$35. (Program code is PRO-065.)

Faculty/staff gift campaign gets under way and continues through May 17

The annual Faculty and Staff Campaign kicked off this week offering Penn State employees the opportunity to participate in a tradition that dates to the University's founding in 1855 — a tradition of philanthropy.

For more than 130 years, faculty and staff have given generously of their time and personal financial resources to enrich the learning environment. Penn State's first president, Evan Pugh, gave of his own resources to help build what is today University House and also donated equipment for science labs.

In the 1920s, faculty and staff members participated in Penn State's first formal fund-raising campaign — the Emergency Building Fund — which had a \$2 million goal. It marked the first time employees as a group had been asked to contribute. Recreation Building, Kitenour Building, Grange Building and part of West Halls on the University Park Campus resulted from the campaign. Another highlight of faculty and staff generosity came during The Campaign for Penn State (1984-1990) when employees contributed more than \$5 million to a variety of University programs.

The tradition of faculty and staff giving has continued. Last year, more than 4,000 Penn State employees contributed \$1.2 million to support college and campus programs, student scholarships and faculty endowments, facility and equipment updates, the University Libraries, the Palmer Museum, public broadcasting, The Hershey Medical Center and many other programs.

Most employees will receive a packet of materials this week at their office address, but campaigns at a few locations may be conducted on a different timetable. Contributions may be directed to any area of special interest within the University. Payroll deduction is available and encouraged as a convenient way to give.

The campaign continues through May 17. For more information call Barbara Sarra in the Office of Annual Giving at (814) 863-2052. At locations other than University Park, contact the director of University Relations.

Pennsylvania Career Day set for April 11

The sixth annual Pennsylvania Career Day will be held April 11 from 10 a.m. to 4 p.m. at The Bryce Jordan Center on the University Park Campus. The theme for this year's event is "Careers in the Commonwealth."

The event is the biggest of its kind in the state, according to Jack Rayman, director of Career Development and Placement Services at Penn State. During the day, more than 2,000 students and alumni from Pennsylvania colleges and universities are expected to meet with more than 100 employers from the Commonwealth to discuss job openings, summer employment and internship opportunities.

All academic disciplines and career fields will be represented, including positions in large and small businesses, government and not-for-profit agencies, health care institutions and human service agencies. Just a few of the participants attending this year's Career Day are Merrill Lynch, The Federal Aviation Administration and United Cerebral Palsy of the Capital Area.

The event is co-sponsored by Gov. Tom Ridge, the Pennsylvania Chamber of Business and Industry, the Pennsylvania Hospital Association and the Pennsylvania Manufacturers' Association.

Admission is free to employers, students and alumni. For additional information, contact Michele Dragon at the Career Development and Placement Services at (814) 865-2377.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Quality Expo '96 set for April 11

Penn State Quality Expo '96 will be held from 11 a.m. to 4 p.m. Thursday, April 11, in the Nittany Lion Inn. This annual event highlights the university's quality improvement initiatives.

Featured at the Expo will be a series of Quality Circle presentations. Listen and ask questions as Provost **John Brighton**, **Larry Spence**, co-director of Penn State's Institute for Innovation in Learning, **Kathryn Dansky**, assistant professor, health policy and administration, and **Linda Null**, assistant professor, computer science, Penn State Harrisburg, discuss innovation in the classroom.

Participate in an interactive demonstration of team-building activities by the Shaver's Creek Environmental Center and learn from IBM's **Bill Geoghegan** and DuPont's **Ted Brown** about the lessons their corporations learned from transformational change strategies.

Browse the Penn State Bookstore display of books representing more than 50 titles that focus on quality improvement in various disciplines. Computer experts will be available to help you try out interactive quality improvement software.

There will be door prizes awarded throughout the day.

If you are one of the winners of a scavenger hunt you will receive a \$25 gift certificate from the Penn State Bookstore, a half gallon of University Creamery ice cream, one pound of Penn State cheddar cheese and one quart of Penn State mushrooms.

Will you have an opportunity to be a winner? Only if you attend the Quality Expo!

For more information about Continuous Quality Improvement, please contact **Louise Sandmeyer**, executive director of the CQI Center, at (814) 863-8721 or e-mail les1@psu.edu.

President Spanier visits Pittsburgh; York Campus is next tour stop

By VICKI FONG
Public Information

In addition to the Penn State campuses and surrounding communities, President **Graham B. Spanier's** statewide tour also has emphasized stops at the major metropolitan areas in Pennsylvania.

As part of his statewide tour, on March 27, Dr. Spanier made another stop in one of Pennsylvania's population centers — Pittsburgh. In the fall, the president traveled to the city of Philadelphia and last month, he visited the city of Harrisburg. What began in September as an initiative to reach out to Pennsylvanians and develop stronger partnerships with communities across the state, will culminate this month with his final three visits to the York and Abington-Ogontz campuses and the Pennsylvania College of Technology in Williamsport.

During this yearlong effort to rediscover how Penn State could better serve its communities, the president has crisscrossed the state with stops, so far, at nearly all of the 23 University locations.

His first Pittsburgh stop was Schenley High School in Oakland, where he met with a group of high school students and spoke with the superintendent of the Pittsburgh School District, which has nearly 40,000 students, according to 1989-90 census figures.

Dr. Spanier conversed with Pittsburgh Mayor **Tom Murphy** and then headed off for a luncheon with African American community leaders at the Westin William Penn Hotel. The day wrapped up with meetings with the editorial boards of the *Pittsburgh Post-Gazette*, the leading newspaper in the city, and the *New Pittsburgh Courier*, the major African American newspaper in the region.

From a Penn State perspective, the region is home to four campuses: New Kensington, Beaver, McKeesport and Fayette. Allegheny County, where Pittsburgh is located, is second in the state in total population to Philadelphia County, according to the 1990 census. Thirty-five higher education institutions reside in the county, excluding the Penn State campuses. Allegheny County also boasts the highest number of alumni, with 18,429 residing there.

During the Harrisburg visit on Feb. 29, President Spanier spoke before 300 business, government and economic development leaders from the Greater Harrisburg area. He also met with the Penn State Cooperative Extension area representatives and attended a provost and dean's leadership luncheon with Penn State Harrisburg advisers, alumni board members, student government representatives and the faculty senate.

Also in Harrisburg, he attended an open meeting with the campus students and then visited students at the Middletown Area High School, returning to the Capital College for talks with administrators, faculty and staff. Capping off the day was an Alumni Association



Tour stop

President **Graham B. Spanier** visited the City/County Building, the municipal hub of Pittsburgh, during his March 27 visit. He also met with Pittsburgh Mayor **Tom Murphy**, left. Penn State has four campuses serving the Greater Pittsburgh region.

Photo: Greg Grieco

and friends reception at the Harrisburg Sheraton.

The visits have helped the president gain insight into the various regions of the state and have allowed him to become familiar with all

corners of Pennsylvania and its people.

Upcoming visits include:
Wednesday, April 10: York campus
Thursday, April 18: Abington-Ogontz
Thursday, April 25: Penn College.

FAST FACTS ABOUT YORK CAMPUS

Founded: 1949

Service area: York and Lancaster counties, parts of Adams, Cumberland and Dauphin counties

CEO: Donald A. Gogniat

Employees: 50 full-time and 125 part-time faculty members; 79 staff members.

Enrollment: 2,106

Key programs: Offers five associate

degrees in: business administration, computer science, electrical engineering technology, letters, arts and sciences and mechanical engineering; also offers a focused master's degree in teaching and curriculum (in cooperation with Penn State Harrisburg), and other graduate courses; in addition, York offers the first two years of most of the 180 baccalaureate degrees offered by Penn State.

News In Brief

HUB/Robeson building design forums

The HUB/Robeson Center Building Design Committee invites members of the University and State College-area communities to attend either of two open forums planned for 7:30-9 p.m. Monday, April 8, in the HUB Gallery Lounge and noon-1:30 p.m. Tuesday, April 9, in the HUB Fishbowl.

The forums will provide a brief history of the HUB expansion/Robeson center project, current status report and planning timelines. Attendees will be able to ask questions and offer observations, suggestions and recommendations. Members of the building design committee and a representative from the architectural firm of Williams Trebilcock Whitehead will be available to discuss the project.

Please mark your calendars and become part of the discussion for this long-awaited and important University project. For more information, contact Craig Millar at (814) 865-7661.

Summer Employment for students

The Department of Dairy and Animal Science is interviewing students for summer employment. Following is a list of animal units where employment will be available, along with the name of the person(s) students should contact to arrange for an interview.

Contacts

Penn State Beef Center
Pete LeVan or Don Nichols - 863-0831
Pete_LeVan@ags.cas.psu.edu
Don_Nichols@ags.cas.psu.edu

Penn State Dairy Center or Dairy Breeding Research Center
Mark Amster - 863-0835
Mamster@das.cas.psu.edu

Penn State Haller Farm
Pete LeVan - 355-1662
Pete_LeVan@ags.cas.psu.edu

Penn State Horse Barns
Paul Studebaker or Brian Egan - 863-0384
Paul_Studebaker@ags.cas.psu.edu

Penn State Swine Center
Dave Hosterman - 865-5651
Dave_Hosterman@ags.cas.psu.edu

*Housing may be available at these locations.

Guaranteed approximately 40 hours/week at \$5/hour from May 4 through Aug. 21. For more information, contact Walker McNeill at (814) 863-3658.

Career Exploration Day

Organizers of Career Exploration Day are looking for departments and units at University Park to participate in this spring's program to introduce ninth-grade students to various occupations.

Two Career Exploration Days, sched-

uled for April 16 and May 17, will be held for students from the Bald Eagle, Bellefonte, Penns Valley and State College Area school districts. The program, a collaborative effort of the four school districts, the Centre County Area Vocational-Technical School and the Chamber of Business and Industry of Centre County, will begin at 9 a.m. as students are transported to the host work site by the schools. The students remain at the work site until 2 p.m.

For more information about the program or to sign up to be host for one or more students, contact Eric Loop, Continuing Education representative, 102 Wagner Building, University Park, Pa., (814) 863-0299; by fax at (814) 863-7042; or by e-mail at ewl@cde.psu.edu.

Paid volunteers needed

Lean and full-figure females are needed to participate in a study at the Laboratory for the Study of Human Ingestive Behavior in Henderson Building. This study involves eating meals in the laboratory every other week during a nine-week period this summer. Each meal will take approximately 30 minutes to consume and will consist of a variety of commercially available foods. No experimental or test foods will be used. Participants should not expect to gain or lose weight during the study. Volunteers must be 18-45 years old, able to eat a wide variety of foods, non-smoking, non-dieting and not pregnant or lactating. In addition to the free meals, subjects will be paid \$300 if they complete the study. If interested, please call (814) 863-8482 and ask for the study coordinator. Staff are encouraged to apply.

The principle investigator on this study is B.J. Rolls.

Research project is recruiting subjects

The Noll Physiological Research Center is seeking male and female research volunteers to participate in a study that will look at human skin blood flow control and thermoregulation. Subjects should be ages 45-65, and women need to be postmenopausal or have had a hysterectomy. Subjects will be provided with a personal exercise prescription and a stipend. The principal investigator on this project is W. L. Kenney, professor of applied physiology. For more information on the project or to volunteer, call Esther or Jane at (814) 865-1236.

Weight Watchers

Receive 12 weeks of Weight Watchers AT WORK for the price of 10 during this special series. Meets Wednesdays, April 10 until June 26 from 12 to 1 p.m. in the Paul Robeson Cultural Center Auditorium on the University Park Campus. Cost is \$115 (\$105 Living Allowance). To register, contact Jan Hawbaker at (814) 865-3085 or JQH3@cas.psu.edu.

Tennis courts

continued from page 1

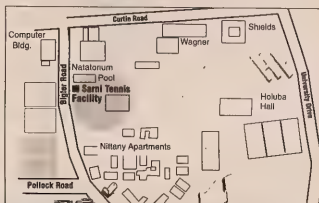
tennis clubhouse that will include locker rooms, a team meeting room and a team lounge area. The clubhouse will be created by completely renovating a historically significant stone building that was formerly used for poultry sales. The entire complex will be named the Sami Tennis Facility.

Vincent Sami, retired chairman and chief executive officer of PPC Industries, and his wife are tennis enthusiasts. Mr. Sami also headed up the previous ownership group of the Pittsburgh Pirates. Neither of the Samis is a Penn State graduate, although both have been supporters of academic and athletic programs at the University and both have had

children attend the University.

"We are excited by the impetus the Sami Tennis Facility will create for our program," Timothy Curley, director of athletics, said. "There has long been a need to upgrade our tennis facilities and this generous gift from the Sami family will enable us to provide our student-athletes with a first-class environment in which to practice and compete."

In addition to the gift from the Sami family, approximately \$500,000 in University funds will go into the project, which also will provide for student use of this facility.



Tennis anyone?

This map shows where on the University Park Campus the new outdoor tennis complex will be located.

May 17 Learning Colloquy to be beamed to other sites

The University's third annual Learning Colloquy will be held on Friday, May 17, and will focus on Improving Learning Through Student Involvement and Collaboration. Penn State faculty who have introduced innovative teaching techniques in their classrooms will be the feature of this year's daylong meeting. The colloquy series is sponsored by the Office of the Executive Vice President and Provost as one of many ongoing initiatives to improve teaching and learning at Penn State.

In an effort to involve more of the University in this intellectual dialogue, the colloquy is being expanded to include three electronically connected sites. Simultaneous programs will be held at the University Park Campus, New Kensington Campus and Delaware County Campus beginning at 8:30 a.m. and ending at 5:30 p.m. During the opening and closing sessions all three locations will be connected via Pci-Tel, providing for live, interactive dialogue among the three sites.

The opening session will

include remarks from President Graham B. Spanier and a keynote address by Karl A. Smith of the University of Minnesota. Dr. Smith has published numerous books and articles and regularly conducts workshops on active and cooperative learning. Presentations made by Penn State faculty on their experiences implementing teaching techniques that require student involvement and collaboration follow. Participants will further explore these innovative teaching experiences through small group discussions. The colloquy's concluding session will include closing remarks by John A. Brighton, executive vice president and provost of the University.

The Learning Colloquy is open to any member of the University community. Registrations are being accepted on a first-come first-served basis. April 19 is the last day to register. To obtain registration information, contact Ginny Newman at (814) 865-2505 or via e-mail at CAN1@psu.edu.

LECTURES

Garlic's health role probed in Russell talk

John Milner, professor of nutrition in the College of Health and Human Development, will present the college's annual Russell Lecture at 4:15 p.m. Thursday, April 11, in 209 Henderson Building South. His topic will be "A Clove a Day: The Role of Garlic in Modifying the Cancer Process." The lecture is open to the public and a reception will follow in the Henderson Building Center.

Dr. Milner, head of the Department of Nutrition, is an internationally recognized investigator who has examined the biochemical basis by which several nutrients modify the cancer process.

Most recently, he and his research team studied the ability of garlic and related foods to inhibit several types of cancer. Their studies have shown that some compounds within garlic can prevent the conversion of normal cells to cancerous cells, while other



John Milner

compounds can inhibit the growth of established human tumors.

Dr. Milner's work has appeared in a range of scientific journals. He is president of the American Institute of Nutrition and was a 1984 recipient of its Bio-Serv Award in Experimental Nutrition, given to outstanding researchers who have held a doctorate less than 10 years. He also is a Fellow of the American Association for the Advancement of Science and serves as a scientific adviser to the International Life Sciences Institute.

Dr. Milner also has served on review boards and advisory panels for the National Academy of Sciences, the National Science Foundation, the Food and Drug Administration, the National Institutes of Health and the USDA. In 1993, he received a Faculty Scholar Medal from Penn State for outstanding research in life and health sciences.

Food safety to be discussed during April 16 seminar

Christine Bruhn, director of the Center for Consumer Research, University of California at Davis, will give a seminar for faculty members and graduate students interested in food safety issues on April 16 at 10:15 a.m. in Room 118 ASI Building on the University Park Campus. The seminar will focus on addressing consumer food safety concerns and is co-sponsored by the departments of Veterinary Science and Food Science.

Dr. Bruhn, a consumer food marketing specialist, taught food science and consumer courses at the University of California and California State University for more than 10 years before joining Cooperative Extension in 1986. She is currently serving as the

food safety liaison for the University of California with the United States Department of Agriculture.

Dr. Bruhn earned a bachelor of science degree in home economics, an M.S. in home economics and a doctorate in consumer behavior, all from the University of California, Davis.

Her seminar is held in conjunction with the Statewide Food Safety Forum, which will take place in Harrisburg on April 17. Dr. Bruhn will be the forum closing session speaker.

Anyone interested in meeting with Dr. Bruhn during her visit at Penn State or getting information on the Statewide Food Safety Forum should contact **Claudine Nuemberger**, forum coordinator, at (814) 863-5846.

Association of Minorities in Cable.

Drawing on her 20 years of experience in television, public relations and marketing, Ms. Farris will share her expertise on getting into the television business.

Tips on breaking into broadcasting

Linda Guess Farris, author of *Television Careers: A Guide to Breaking and Entering*, will speak at 7:30 p.m. April 8, in the Carnegie Cinema.

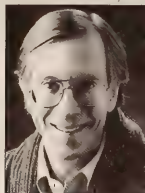
The lecture is sponsored by the Penn State chapter of the National

Priestley lectures view RNA as an enzyme

Thomas R. Cech, Distinguished Professor of chemistry and biochemistry at the University of Colorado and investigator at the Howard Hughes Medical Institute, will present the 1996 Joseph Priestley Lectures in Chemistry from April 9 to 11 on the University Park Campus. The three-lecture series, titled "RNA as an Enzyme," is sponsored by the Eberly College of Science and a grant from Exxon Research and Development Laboratories. The public is invited to attend.

The lectures include: "RNA Catalysis: Discovery, Origins of Life and Molecular Possibilities," at 8 p.m. Tuesday, April 9, in 104 Keller Conference Center; "How to Accelerate a Reaction 100,000,000-fold Using Only RNA," at 4 p.m. Wednesday, April 10, in 55 Osmond Laboratory; and "Building an Active Site with Ribonucleotides," at 12:15 p.m. Thursday, April 11, in 55 Osmond Laboratory.

Dr. Cech's main research interests lie in understanding the role of RNA catalysis in cellular metabolism and related processes. It was long thought that all enzymes were proteins; however, in 1982 Professor Cech and his research group discovered the first instance where RNA (ribonucleic acid), a form of genetic material, acts as a biological catalyst. These are now



Thomas R. Cech

known as ribozymes.

Like most scientific advances, the discovery of catalytic activity in RNA has led to unexpected spin-offs. One of these is a new, plausible scenario for the origin of life on Earth.

Dr. Cech, who holds a B.A. from Grinnell College, received his doctoral degree in 1975 from the University of California at Berkeley. He joined the faculty at the University of Col-

orado in 1978 and became professor of chemistry and biochemistry in 1983. In 1987, he was appointed American Cancer Society Research Professor and in 1988 received a joint appointment as professor of biochemistry, biophysics and genetics at the Health Sciences Center in Denver. In that same year, he was appointed investigator for the Howard Hughes Medical Institute. He was appointed distinguished professor in 1990.

Dr. Cech received the Nobel Prize in Chemistry in 1989 and the National Medal of Science in 1995. He was elected as a member of the National Academy of Sciences in 1987 and of the American Academy of Arts and Sciences in 1988.

The Priestley Lectures are named in honor of Joseph Priestley, the 18th-century English chemist who discovered oxygen and settled in central Pennsylvania.

Professor explains disparity in pay rates in equal jobs

"Does Where You Work Make a Difference?" is an examination of employer characteristics and employee income by **Jacob DeRooy**, associate professor of economics at Penn State Harrisburg.

His lecture, to be given at noon on April 10 at the Penn State Harrisburg Eastgate Center, is part of the Current Issues in Business Lecture Series. In his talk, Dr. DeRooy will

summarize some of the research labor economists have done to explain differences in pay for jobs of equal skill. Some of the issues he will discuss include: Why it's better to work for the big company; job conditions; unions; and whether or not government workers are short-changed.

To register for this lecture, call the center at (717) 772-3590.

Organizational health topic of lecture

John Bruhn, provost and dean of Penn State Harrisburg, will present "Diagnosing the Health of Organizations," from noon-1:30 p.m. Thursday, April 11 at the Penn State Downtown Center in Harrisburg.

In his talk, Dr. Bruhn will discuss the concept of a healthy organization and the fact that organizations are never stable, never maximize their

potential and never achieve complete harmony. His presentation will review how the psychodynamics of an organization are managed and the capacity of leaders and followers to repair "broken relationships" that influence the organization's health. A question-and-answer period will follow the lecture.

For more information, contact the Downtown Center at (717) 783-0433.

More Lectures

Learn about being in the inn business

Aspiring innkeepers can learn the "ins and outs" of the business during a conference, "Successful Innkeeping: Managing a Bed and Breakfast Inn," to be held April 15 and 16 at The Penn State Scenic Inn.

The bed-and-breakfast industry is thriving, but the increasing competition requires innkeepers to try new ideas to stay successful. This conference will provide helpful strategies in a variety of areas including operations, service, technology, finance and law.

Keynote speakers will be Carl Glassman, co-author of *How to Start and Run a Bed and Breakfast Inn* and Holly Stiel, author of several books. Mr. Glassman will open the conference with "Managing Inn the Nineties

— Two Decades of Change: Innkeeping Trends Since 1976." Ms. Stiel will present Monday's luncheon talk, "The Spirit of Hospitality," and will also conduct a session, "Innkeeping as Concierge."

Special conference events will include the opportunity to tour area bed-and-breakfasts on Tuesday afternoon.

A post-conference session, "Introduction to the World Wide Web," will be offered on April 17. A special reduced fee will be extended to conference participants. This hands-on workshop will show how to create homepages for the Web, including links to other sites as well as graphics.

For conference information and registration, call (800) PSU-TODAY.

Photographer to talk about his work during two lectures

Photographer Emmet Gowin will present a lecture titled "Three Decades of Photography: Emmet Gowin's Life Work" at 4 p.m. Monday, April 8, in the Palmer Lipson Auditorium on the University Park Campus. He will discuss his photographic work from 10 a.m.-noon on Tuesday, April 9 in the conference room of Patterson Building. His visit is sponsored by the College of Arts and Architecture School of Visual Arts.

Mr. Gowin's work from the 1970s reflects his interest in photographing his own family. Photographs from this period reflect his vision of the world as a place where a family's love and tenderness can often be punctuated by unseen tensions. In the 1980s, he altered his focus and began taking aerial photographs of Mount St. Helen's erupting and its

aftermath. He also began traveling the country at that time, photographing landscapes and natural sights that have been subversively or overtly altered by man.

Mr. Gowin has been teaching in the visual arts program at Princeton University since 1973. A recipient of the 1977 and 1979 National Endowment for the Arts Fellowship and a 1974 recipient of the Guggenheim Foundation Artist Fellowship, he was recognized in 1992 with a Friends of Photography Peer Award. Among his many awards and exhibitions, in 1989 and 1993 he exhibited his work in the Photo Gallery International, Tokyo. His work, "Late 20th-Century: Landscape Photographs," is represented by Pace/MacGill Gallery in New York City.

Both lectures are free to the public.

12th Martin Luther King Jr. Memorial lecture to be held at Robeson tonight

The 12th Annual Martin Luther King Jr. Memorial Lecture will be presented at 7:30 p.m. today at the Paul Robeson Cultural Center. Clayborne Carson, professor of history at Stanford University, is the featured speaker.

Dr. Carson is editor of the Martin Luther King Jr. Papers Project, a chronologically arranged, multi-volume series of King's letters, speeches

and project papers and sermons. This project is considered to be the most comprehensive compilation of King's writing and public statements and will culminate in a 14-volume series.

The King Memorial Lecture is sponsored by the Center for Ethics and Religious Affairs and the Department of African and African American Studies.

Researcher's talks to revolve around atoms

Herbert Walther, a research pioneer in the cross-disciplinary application of lasers in atomic, molecular and optical physics, will give the 1996 E. W. Mueller Memorial Lectures in Physics on April 11 and 12, on the University Park Campus. Dr. Walther is a professor at the Ludwig-Maximilians-Universität München and director of the Max-Planck Institut für Quantenoptik.



Herbert Walther

His lectures, which are open to the public, include "Photons — Atoms — Waves, New Tests of Quantum Phenomena" at 8 p.m. Thursday, April 11, in 112 Kern Building and "The Quantum Optics of a Single Atom" at 11 a.m. Friday, April 12, in 339 Davey Laboratory.

Dr. Walther's major research achievements include his development of the one-atom maser, his investigations of nonclassical radiation, his high-resolution spectroscopy of particles in a Paul-trap and his formation of Wigner crystals.

He developed methods for the detection of gravitational waves, for the nonlinear frequency mixing of laser light in a scanning tunneling microscope and for the spectroscopy of Rydberg molecules.

He is editor or coauthor of five books about lasers and laser applications.

He obtained his doctoral degree in 1962 at the Physics Institute of Heidelberg University in Germany, where he then served as a postdoctoral research associate. He later moved to the Technical Uni-

versity of Hannover, Germany, where he became a lecturer and received his habilitation degree in 1968.

After a variety of positions at various institutions, he took the offer of a chaired position at the University of Munich, which he has held since 1975 and also became director of the Max Planck Institute for Quantum Optics when the institute was founded in 1981.

He received the 1990 Charles Hard Townes Award of the Optical Society of America; the 1993 Michelson Medal of the Franklin Institute in Philadelphia; and the 1993 King Faisal Prize in Physics.

The E. W. Mueller Memorial Lectures in Physics honor Erwin Mueller, who was a member of the Penn State Department of Physics from 1952 until his death in 1977.

Linking environment with engineering goal of seminar

Putting environmental objectives into the curriculum of all engineering majors is the goal of the Third Annual Penn State Green Design Conference planned for Sunday, April 21, from 10 a.m. to 3 p.m. at the Cafe Laura, Mater Building on the University Park Campus.

Sponsored by the Leonard Center and the Pennsylvania Space Grant Consortium, the conference is aimed at faculty and students of the College of Engineering, but is open to anyone interested. There will be a poster display and brunch from 10-11 a.m.

The following speakers are scheduled:

■ 11 a.m.-noon: Diane Wilson, president, Calhoun County Resource

Watch, will discuss "Zero Discharge from Industry."

■ Noon-1 p.m.: Karen Thomas, senior engineer, University of Massachusetts, will talk about "From Chlorine and Hydrocarbon-based to Aqueous Biodegradable Solvents" and "1-2 p.m.: Howard Lawrence, architect, will present the 'Green Lecture.'"

■ From 3-4 p.m. a visit to the Straw Bail House being built by the Center for Sustainable Living is planned as an optional activity.

To preregister, students, faculty or staff may contact the Space Grant Consortium, in 101 S. Freer Laboratory, at (814) 863-7688 or through e-mail at pspac@psuvm.psu.edu. Registration is free.

Appointments

Mont Alto student affairs welcomes admissions counselor

Steven Glennon has joined the Penn State Mont Alto Student Affairs staff as an admissions counselor.

Mr. Glennon, who earned his master's degree in counselor education and bachelor's degree in elementary education from Penn State, served as an admissions counselor for Mansfield University in Mansfield, Pa. He also completed an internship in the Office of Undergraduate Admissions at University Park.

At Mont Alto, Mr. Glennon will be responsible for organizing, conducting and implementing recruiting and admissions programs for the campus. He is a member of the Pennsylvania College Personnel Association.



Steven Glennon

Head librarian comes on board at McKeesport Campus

Kay E. Harvey has been appointed head librarian at the Penn State McKeesport Campus. Since 1993 she has served as head librarian for both the Penn State McKeesport and New Kensington campuses.

Ms. Harvey holds a master of arts degree in library and information studies from Texas Woman's University, a master of science in library science from East Texas State University, and a bachelor of arts in sociology from the University of Texas at Austin. She is presently in the doctoral program in library and information studies at Texas Woman's University.

She served as librarian with the Community College of Allegheny County system from 1991 to 1993. From 1974 to 1990 she held a variety of positions at the James G. Gee Library at East Texas State University.

She is published in numerous journals, bulletins and books including two entries for the 1991 and 1986 editions of *Who's Who in Nobel Prize Winners*. She is a frequent presenter for library and information science conferences and teaches Research Strategies for Honors Students at Penn State McKeesport. She is working with other McKeesport Campus faculty on Project Empower and Project Vision II.

Co-directors named for new one-year graduate program

Michael P. Hottenstein, a native of Lebanon, Pa., and Clayton Ruud, a native of Spokane, Wash., were named co-directors of the Quality and Manufacturing Management Program, a new one-year graduate program offered jointly by The Smell College of Business Administration and the College of Engineering.

The Quality and Manufacturing Management Program will prepare mid-level managers to bring together collaborative teams of engineers, scientists and business managers whose common aim is cus-

tom-driven quality and whose focus is competition.

The Penn State program offers an integration of business management, engineering design and manufacturing production skills and leads to a master of manufacturing management degree. The overall course work is practice-based and provides team projects based on case studies.

Dr. Hottenstein is professor of operations management and professor-in-charge of the manufacturing option of the MBA program of The Smell College. He also is associate director of the Center for the Management of Technological and Organizational Change. His research on operations management and manufacturing has appeared in a variety of journals and he serves on the editorial boards of the *Journal of Operations Management* and the *Journal of High Technology Management Research*.

He is a member of the Academy of Management, the Decision Sciences Institute and the Society for Manufacturing Engineers. He holds a B.S. in economics and business from Lebanon Valley College, an M.S. in business from Penn State and a D.B.A. from Indiana University.

Dr. Ruud, professor of industrial engineering, joined Penn State in 1979 and teaches graduate and undergraduate manufacturing process courses. He helped to develop the new integrated graduate program in manufacturing management. He is recognized worldwide for his research in residual stresses and non-destructive evaluation and has several patents in this area. He has published more than 100 science and engineering articles and edited 17 proceedings, served on editorial committees, and organized more than 15 national and international conferences and symposia.

Dr. Ruud has initiated two ASTM standards and founded a series of international meetings on non-destructive characterization of materials. A former assistant director of the Materials Research Laboratory, he also serves on the board of directors for Denver X-Ray Instruments, a company he founded in Altoona, Pa.

Instructional design/development specialist joins Mont Alto Campus

Thelma Looms recently joined the Penn State Mont Alto Campus as an instructional design/development specialist.

Ms. Looms, who is currently pursuing her doctoral degree in computer science at George Washington University, received her master's degree in education curriculum and instruction from George Mason University in Fairfax, Va., and her bachelor's degree in computer science from Hunter College in New York, N.Y. She comes to Mont Alto Campus from James Martin and Company in Virginia.

A member of the American Association for Research in Education, the Association of Educational Technology and Communications, the International Society for Technology in Education and the International Society of Performance and Instruction, she will work with Mont Alto Campus faculty members to design and develop technical-based curricula. She also will assist faculty taking part in Project Empower, a collaborative effort among campuses in the Commonwealth Educational System that allows faculty to shift away from traditional lectures through the use of computers and telecommunications technologies.

Admissions officer joins Mont Alto Campus staff

Debra Neely has been named admissions officer for the Penn State Mont Alto Campus. In this position, she will be responsible for coordinating all admissions functions at the campus and directing admissions for Mont Alto's associate degree allied health programs. She will also develop telecommunications programs and marketing strategies, and serve as a Commonwealth Campus representative on the University's admissions advisory committee.

Ms. Neely, who holds a master's degree in counselor education and a bachelor's degree in psychology and sociology, served as admissions counselor for the campus during the summer. A member of the National Association of Student Personnel Administrators and the National Association of Campus Activities, she has presented workshops on financial aid and graduate assistantships.

Center for Sports Medicine welcomes two physicians

Dr. Philip G. Roberts Jr. and Dr. William A. Lohrer have joined the Center for Sports Medicine.

Both physicians are board certified orthopedic surgeons and have been named assistant professors in the Department of Orthopedics and Rehabilitation.

Dr. Roberts of State College received a B.A. from the University of Pittsburgh and his M.D. degree from the Temple University School of Medicine in Philadelphia in 1965. He served as a lieutenant commander in the U.S. Navy Medical Corps from 1967-69; and has been an active staff physician in orthopedic surgery at Centre Community Hospital in State College since 1972, where he served as chairman of the Department of Surgery from 1978-85, as assistant chief of staff from 1985-88, and again from 1993-95. He is currently chief of staff.

He has held a number of positions throughout his career including active/consulting staff in orthopedic surgery, Philipsburg State General Hospital, 1979-84; attending physician, Clearfield and Centre Counties Society for Crippled Children since 1979; and consultant in orthopedic surgery, Ritenour Health Center, from 1972-1993. He also has served on the active staff in orthopedic surgery at Tyrone Hospital since 1993 and was team physician for State College Area High School from 1972-92.

He has held a number of teaching positions at Penn State, including adjunct lecturer in health studies in the College of Human Development, guest lecturer in physiology and clinical assistant professor of orthopedics in the College of Medicine.

Dr. Lohrer received his B.A. from Williams College, Williamstown, Mass., in 1980 and his M.D. from the University of Rochester, N.Y., in 1984.

He served an internship in general surgery in 1984-85, and a residency in general surgery in 1985-86 at the University of Massachusetts Medical Center, Worcester, Mass. He also served a residency in orthopedic surgery at the University of Massachusetts Medical Center from 1986-1989 and was a Fellow in sports medicine at the Cleveland Clinic Foundation, Cleveland, Ohio, in 1990-91.

He has been a staff orthopedic surgeon at Cooley Dickinson Hospital and a member of Hampshire Orthopedics Inc., in Northampton, Mass., since 1992. He also has served as an orthopedic consultant to University Health Services at the University of Massachusetts at Amherst, team physician for the university and team physician for Amherst College since 1992.

Dr. Lohrer also served as team physician for the Rochester Americans AHL Hockey Team and the Irondequoit High School Football Team from 1986-89, and for John Carroll University and Cleveland State University from 1990-91. Additionally, he served as flight surgeon for the New England Air Force Medical Helicopter of the University of Massachusetts Medical Center from 1984-86.

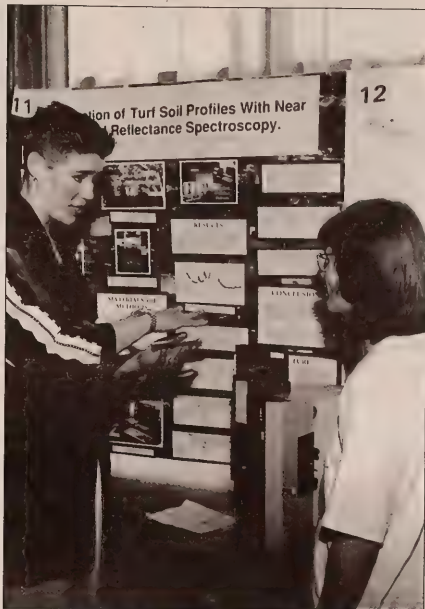


Kay E. Harvey



Thelma Looms

THE ELEVENTH ANNUAL



Andre-Anne Couillard from the Department of Agronomy in the College of Agricultural Sciences discusses her project, "Evaluation of Turf-Soil Profiles with Near Infrared Reflectance Spectroscopy," with an inquisitive passerby.

The 11th Annual Graduate Research Exhibition, held March 15 and 16, featured the work of 232 graduate students in 211 exhibits.

Research projects spanned the spectrum from an analysis of aluminum nitride surfaces, to a study of the rhetorical strategies of the "Guerilla Girls" or of the genetic puzzles of muscle development, to an understanding of urban girls' expectations for their futures.

Prizes totalling \$10,000 were awarded to 49 poster presentations in five categories: Arts and Humanities, Engineering, Health and Life Sciences, Physical Sciences, and Social and Behavioral Sciences.

Eighty faculty judges graded the exhibits in three areas: content (50 percent of total score), display (30 percent) and oral presentation (20 percent). Each poster presentation was judged by two experts in the same or an allied discipline and by one judge from outside the student's field.

Those exhibits judged to be the best conveyed both the research project's significance to scholars in the field and its potential significance to the general public. They testified to the careful design and execution of the research and presented clear results that were well interpreted.

The Graduate Research Exhibition was established in 1986 to celebrate research as an essential and exciting part of graduate education at Penn State.

"The Graduate Research Exhibition showcases the wide variety of research opportunities available to Penn State graduate students," Rodney Erickson, dean of the Graduate School, said. "It fosters communication across disciplines and introduces the wider community to the significance and impact of our \$344-million-per-year research program."

The Graduate Research Exhibition is sponsored each year by the Office of the Senior Vice President for Research and Graduate Education. Judging is organized by the Graduate Council Committee on Research, whose members are: Charles L. Croukey, professor of electrical engineering; Derek Elsworth, associate professor of mining engineering; Joan Lakoski, associate professor of pharmacology and anesthesiology (chair); Raymond Lombra, professor of economics; D. Douglas Miller, professor of music; Kaushik Parthasarathi, graduate student in bioengineering; Ladislaus Semali, assistant professor of education; Herbert S. Siegel, professor of poultry science; Frederick Williams, associate professor of biology; Robert Yeh, associate professor of nutrition; William D. Taylor (ex officio), director, Intercollege Research Programs; and K. Jack Yost (ex officio), associate vice president for research and technology transfer.

GRADUATE RESEARCH EXHIBITION

March 15-16, 1996
University Park

Winners of the 11th Annual Exhibition

WINNING EXHIBITORS BY AREA OF ENTRY

ARTS and HUMANITIES

1st: Anne T. Demo

"Guerilla Girls in our Midst: Tracking the Discursive Tactics in a Jungle of Cultural Politics"
Department - speech communications (College of the Liberal Arts)
Adviser: Steve Browne

2nd: Matthew J. Kinservik

"A Sinister Macbeth: Charles Macklin's Revolutionary Production of 1773"
Department - English (College of the Liberal Arts)
Adviser: Robert D. Hume

3rd: Caroline Joan S. Picart

"Inside Notes from the Outside"
Department - philosophy (College of the Liberal Arts)
Adviser: Irene Harvey

Honorable Mention: Claudia M. Leal

"Window to a Child's World: An Exploration and Day-Care Center"
Department - architecture (College of Arts & Architecture)
Adviser: Jawaid Haider

ENGINEERING

1st: Glenn E. Sjoden

"PENTRAN: A 3-D Parallel Transport Code with Complete Phase Space Decomposition"
Department - nuclear engineering (College of Engineering)
Adviser: A. Haghigat

1st: Andrew D. Smith

"Classification of SAMS Data by Unsupervised Neural Networks"
Department - mechanical engineering (College of Engineering)
Adviser: Alok Sinha

2nd: Wanee Chinisirikul

"LCP-PE in-situ Composite: New Materials for Long Duration Balloon (LDB) and Biomedical Applications"
Department - materials science and engineering (College of Earth & Mineral Sciences)
Adviser: Ian R. Harrison

2nd: Keith Lysiak

"High Fidelity Bench/Honorable Mention:Arks for Propagation Model Comparison"
Department - electrical engineering (College of Engineering)
Adviser: James Breakall

2nd: Alex Petrov

"Optical Adaptive Signal Processing for Mobile Communications Systems and Radar"
Department - electrical engineering (College of Engineering)
Adviser: Francis T.S. Yu

3rd: Martin J. Chiaverini

"Combustion Processes in Hybrid Rocket



Mariela Bianco (right) from the Department of Agricultural Economics and Rural Sociology exchanges information on her project, "Tuberous Crops in the Peruvian Highlands," with one of the hundreds of visitors to the event.

Motors for Future Space Propulsion Applications"

Department - mechanical engineering (College of Engineering)
Adviser: Kenneth Kuo

3rd: Naesung Lee

"Surface Morphologies and Structures of (001) Homoepitaxial Diamond Films"
Department - materials (Intercollege)
Adviser: Andrzej Badzian

3rd: Vladislav Nodelman, Harihara Baskaran

"Breathing Easier With the Penn State Artificial Lung"

Department - bioengineering (Intercollege)

Adviser: James S. Ultman
Honorable Mention: Sajjad H. Mahesri
"Thermocapillary Motion of Drops in a Tube"

Department - chemical engineering (College of Engineering)

Adviser: Ali Borhan

Honorable Mention: Kevin Smith

"Prototype Large Forage Bale Slicer for Total Mixed Rations"
Department - agricultural & biological engineering (College of Agricultural Sciences)
Adviser: Dennis Buckmaster

Honorable Mention: Conrad M. Zapanta

"In Vivo Observation of Prosthetic Heart Valve Cavitation"
Department - bioengineering (Intercollege)
Adviser: John M. Tarbell

HEALTH & LIFE SCIENCES

1st: Barbara Bour

"me2 Encodes a Transcription Factor that is Essential for Myogenesis"
Department - biochemistry, microbiology, and molecular biology (Eberly College of Science)
Adviser: Susan Abmayr

2nd: Grover Paul Miller, Bruce A. Posner

"Applying a Chain-Shuffling Technique to Improve Catalysis by an Antibody"
Department - chemistry (Eberly College of Science)
Adviser: Stephen J. Benkovic

2nd: Robert T. Morgan

"Automated Biomonitoring of Acid Stress Behavior in Bivalve Mollusks"
Department - ecology
Adviser: F.M. Williams

2nd: Kimberly A. Shafer-Weaver

"Activated CD8+ Lymphocytes Suppress Immune Responsiveness Postpartum"
Department - veterinary Science (College of Agricultural Sciences)
Adviser: Lorraine M. Sordillo

3rd: Amy M. Bonser

"Effect of Phosphorus Availability of Basal Root Growth Angle in Bean"
Department - plant physiology (Intercollege)
Adviser: Jonathan Lynch

3rd: Andree-Anne Couillard

"Evaluation of Turf Soil Profiles with Near

Winners

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Infrared Reflectance Spectroscopy"

Department - agronomy
(College of Agricultural Sciences)
Adviser: A.J. Turgeon

3rd: Charles Dow

"Urbanization Impacts on Long-term Evaporation Trends in Eastern United States"
Department - forest resources (College of Agricultural Sciences)
Adviser: David R. DeWalle

3rd: Jane Elizabeth Smith

"Cellular Electrophysiological Effects of Antidepressants in the Aging Hippocampus"
(College of Medicine)
Adviser: Joan M. Lakoski

Honorable Mention: T. Eric

Blank, Michael Woods
"Elucidating the Involvement of GAL3 in Gene Transcription; Discovery of New Mutants and Interactions"
Department - cell and molecular biology
(College of Medicine)
Adviser: James E. Hopper

Honorable Mention: Jill Ann Bush

"The Effect of Resistance Exercise on Adrenal Hormone and Lymphokine Plasma Concentrations"
Department - exercise and sport science (College of Health and Human Development)
Adviser: William J. Kraemer

Honorable Mention: Doug Greger

"Male Pseudohermaphroditism in the Pig: Identification & Preliminary Hormonal Investigations of Intersex Pigs on Remote Islands in the Republic of Vanuatu, Southwest Pacific"
Department - animal science (College of Agricultural Sciences)
Adviser: Daniel R. Hagen

Honorable Mention: Timothy C. Morton
"Cricetine Leaf Beetles use Host Plant Chemicals in a Frass-Based Defense"
Department - entomology (College of Agricultural Sciences)
Adviser: Jack Schultz

Honorable Mention: Jun Shi

"Expression and Regulation of Expansin Genes in Cucumber Seedlings"
Department - plant physiology (Intercollege)
Adviser: Daniel Cosgrove

PHYSICAL SCIENCES

1st: Sanjay A. Monie

"Surface Reactivity of Aluminum Nitride"
Department - materials (Intercollege)
Adviser: Carlo G. Pantano

2nd: Cullen Flanders

"Horseradish Roots Can Decontaminate Polluted Soils"
Department - agronomy
(College of Agricultural Sciences)
Adviser: Jean-Marc Bollag

2nd: Eric M. Snyder

"Femtosecond Laser-Induced Coulomb Explosion Clusters"
Department - chemistry (College of Science)
Adviser: A. Welford Castleman

3rd: Lee Clarkner

"Observations of Young Solar Type Stars"
Department - astronomy and astrophysics
(Eberly College of Science)
Adviser: Eric Feigelson

Honorable Mention: David P. Long

"Lanthanide Alkyl and Hydride Complexes Containing the Tris (Pyrazolyl) Borate Ligand and Their Catalytic Activity with Olefins"
Department - chemistry (Eberly College of Science)
Adviser: Patricia A. Bianconi

Honorable Mention: Chris Poulsen

"Linkage Between Climatic Factors and Regional Oceanography in the mid-Cretaceous"
Department - geosciences (College of Earth and Mineral Sciences)
Adviser: Eric Barron

SOCIAL and BEHAVIORAL SCIENCES

1st: Esi Colecraft

"Acceptance of Sun Dried Mangoes as a Food-Based Strategy to Improve Year-Round Vitamin A Security in Kwabia, Ghana;"
Department - nutrition (Intercollege)
Adviser: Dorothy Blair

1st: Alina M. Perez-Febles

"Looking Forward: Urban Girls' Expectations for the Future"
Department - psychology (College of the Liberal Arts)
Adviser: Kevin Allison

2nd: Kathleen E. Cox

"The Role of Autonomy in Promoting Engagement in Literacy Tasks"
Department - educational and school psychology and special education
(College of Education)
Adviser: Robert J. Stevens

2nd: Janet Friedmann

"Predicting Early Non-elective Readmission in Older Adults"
Department - nutrition (Intercollege)
Adviser: Helen Smicklas-Wright

3rd: Elia E. Kwee, Anne B. Edwards, Shannon E. Jarrot

"Caregivers' Health Seeking Behavior: Impact of the Intensity of Stressors"
Department - human development and family studies (College of Health and Human Development)
Adviser: Steven Zarit

3rd: Kelly Anne Mollica

"Social Networks of Women, Minorities, and White Males in an Organizational Setting"
Department - management and organization (Smeal College of Business Administration)
Adviser: Barbara L. Gray

3rd: Richard M. Thomas

"A Mitochondrial DNA Insertion and Impli-



Sanjay A. Monie from the Intercollege Research Program in materials science defends his poster exhibit, "Surface Reactivity of Aluminum Nitride." He won first place in the physical sciences category.

3rd: Yalei Kuang

"Scanning Tunneling Microscopy and Atomic Force Microscopy Study of Homeopitaxial Diamond(001) Films"
Department - physics (Eberly College of Science)
Adviser: Tien T. Tsong

3rd: Darren M. Williams

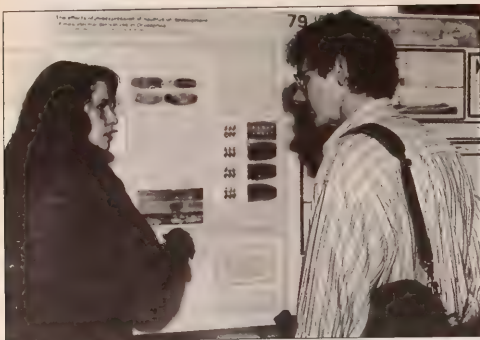
"Habitable Planets with High Obliquities"
Department - astronomy and astrophysics
Adviser: James F. Kasting

Honorable Mention: Chuma Mbalu Keswa

"Dissolution of Alumina in Alkaline Solutions: Implications for Nuclear Waste Treatment"
Department - materials science and engineering
(College of Earth and Mineral Sciences)
Adviser: K. Osseo-Asare

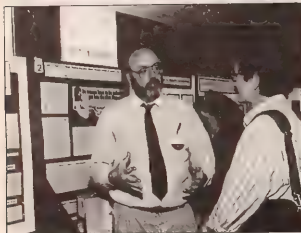
Honorable Mention: Robert Kuligowski

"Quantitative Precipitation Forecasting Using Artificial Neural Networks"
Department - meteorology (College of Earth and Mineral Sciences)
Adviser: A.P. Barros



Let's talk about it...

Cheryl Keller (above) from the Department of Biochemistry and Molecular Biology discusses the "Effects of Mis-expression of *Nautilis* on Mesodermal Derivatives in *Drosophila*," while Doug Greger (left) explains his "Pigs in Paradise" poster. He is working on a degree in the Department of Dairy and Animal Science.



Winners

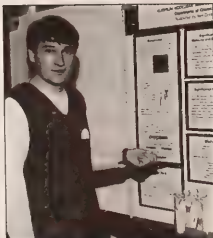
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cations for Human Origins"
Department - anthropology
(College of the Liberal Arts)
Adviser: Mark Stoneking

Honorable Mention: Michael C. Dalbor
"The Nature of Risk in the Restaurant Industry"
Department - hotel, restaurant, and institutional management (College of Health and Human Development)
Adviser: William Andrew

Honorable Mention: Sunghye Park
"Development and Validation of a Self-Efficacy Beliefs Instrument for Korean Prospective Elementary School Teachers"
Department - curriculum and instruction (College of Education)
Adviser: Thomas M. Dana

Honorable Mention: Connie Russo
"Metacognitions of Expert and Novice Professional Sales-Teachers"
Department - adult education, instructional systems, and vocational and industrial ed (College of Education)
Adviser: Frank Dwyer



Breathing easier

Vladislav Nodelman, representing the department of Chemical Engineering and Bioengineering, points to his display of "Breathing Easier with the Penn State Artificial Lung." He and colleague Hariharo Baskaran took third-place honors.

Honorable Mention: Jacqueline C. Shin
"Continuous Behavioral Measurement of Mental Activity: Reaching to Calculate"
Department - psychology (College of the Liberal Arts)
Adviser: David A. Rosenbaum

Excerpts from the keynote address Reshaping graduate education

By Phillip Griffiths
Institute for Advanced Study

We need a better alignment between how graduate students are educated and their future careers," according to Phillip Griffiths, chair of the Committee on Science, Engineering, and Public Policy of the National Academy of Sciences, the National Academy of Engineering and the Institute of Medicine (COSEPUP).

As keynote speaker for the 11th Annual Graduate Research Exhibition on March 15, Dr. Griffiths reflected on the COSEPUP report, "Reshaping the Graduate Education of Scientists and Engineers," and discussed the effects the report has had on graduate education since its release in 1995.

"If scientists and engineers are to contribute effectively to national, scientific and technological objectives," the COSEPUP report states, "their educational experience must prepare them to do so. . . . Students, universities and colleges, professors, mentors, funding agencies, employers and others must make decisions today that will affect the careers of science and engineering students for the rest of their lives."

In order to make recommendations toward such changes, the committee interviewed faculty, administrators, employers and graduate students. "We expected to recommend reducing the number of graduate students. That came to be the very last thing we would want to recommend." Instead, Dr. Griffiths noted, the committee found that limiting the number of doctorates would exclude certain populations while not improving the overall situation.

Many more than half of new Ph.D.s now find work in non-academic settings, the committee found. Most universities, however, continue to educate graduate students to do research and to follow the path of their academic adviser, and the time to degree continues to lengthen.

What is needed instead of such "narrowness of experience," Dr. Griffiths said, is training in "a variety of abilities in addition to research skills." Above all, he said, the committee found that graduate students "need enough options to prepare for interdisciplinary and multidisciplinary work, the ability to express technical matters to non-specialists and to communicate throughout the corporation, and the ability to work as members of a team." Industry is not asking for students to be generalists, Dr. Griffiths noted, "but specialists with open minds."

In order to respond to this change of emphasis, graduate students need more information about career options and fields likely to grow. To this end, the National Academy of Sciences has developed a career planning center on its World Wide Web home page and the National Academy Press is publishing a career guidebook produced by COSEPUP.

Phillip A. Griffiths, Ph.D., is director of the Institute for Advanced Study in Princeton, N.J. Before joining the institute in 1991, he was professor and James B. Duke Professor of mathematics at Duke University. He also has taught at Harvard, Berkeley and Princeton. A native of Raleigh, N.C., he received his doctorate from Princeton in 1962. He is a member of the National Science Academy, the National Science Board and the American Philosophical Society.

His visit was jointly sponsored by the Eberly College of Science and the Graduate School.

Copy and photographs for this special section were provided by the Graduate School.

Murals

continued from page 1

mural artists. Poet **Maya Angelou** has written of him, "His pen and pencil and brush take us without faltering into the individual personal world where each of us lives privately."

Dr. Biggers, who received his B.S. and M.Ed. degrees in art education from Penn State in 1948, crafted the two murals in the foyer of Burrows Building, as well as "The Sharecroppers" mural now hanging in the Paul Robeson Cultural Center, while a student.

"Biggers painted his murals on a canvas made of very thin fabric that was originally placed on a stretcher and attached to the wall with thumbtacks," Mr. Theodore said. "The canvas is fragile and because of its location, vulnerable to cold and humidity. It's been repaired before."

Mr. Theodore is removing dust, water stains and food stains from the canvas and repairing small tears in it that have been caused in part by vandals. Once the murals are rehung later this semester in Burrows Building, they will be protected by the installation of an ultraviolet light-reducing panel in the window above the doors. In addition, acrylic panels will be placed over the murals to shield them from temperature extremes and moisture from opening and closing the doors.

"As an educator and a museum curator, these murals hold great significance," Glenn Willumson, curator of the collection for the Palmer Museum of Art, said. "As a curator, these murals are important because they represent the early works of one of the most significant artists of the 20th century. Any artist's earliest works are subject to the ravages of time."

Dr. Willumson points to John Biggers' recent retrospective exhibition at the Houston Museum of Fine Arts as confirmation of his lofty status in the art world.

"Here is someone for whom, when he painted these murals, it probably never occurred to him that he would have a major retrospective at a large museum later in life," Dr. Willumson said. "As an educator, it's easy to point to John Biggers as an example of what perseverance and vision can accomplish. His pictures give hope that if you persevere, you can in fact succeed."

Susan Welch, dean of the College of the Liberal Arts—the current home for the murals, said the pieces are among the college's most significant treasures.

"Their care is an important responsibility," she said. "Dr. Biggers' achievements while a student at the University are an impressive example of the contributions possible by people at the earliest stages of their careers. These paintings are truly transcendent monuments of black culture and history that speak to all."

The conservation of the murals was supported by the College of the Liberal Arts and the Office of Physical Plant.

—Lisa Rosellini contributed to this story.



"Days of the Harvest"



"Night of the Poor"

These murals, painted by John T. Biggers, are being restored and will be returned to their home inside the entrance of the Burrows Building.

Photos: Richard E. Ackley

ABOUT JOHN T. BIGGERS

A native of Gastonia, N.C., artist **John T. Biggers** studied under Viktor Lowenfeld at Hampton Institute (now Hampton University) in Hampton, Va. Lowenfeld, an émigré from Nazi Austria, helped introduce the field of art education in the United States. When Lowenfeld came to Penn State in 1946, John Biggers joined him, having served two years in the U.S. Navy.

Dr. Biggers joined the faculty of the newly established Texas State University for Negroes in Houston, later Texas Southern University, where he established a well-known art department. In 1952-53, he painted a mural for the Blue Triangle YWCA in Houston, "The Contribution of Negro Women in American Life and Education." His research on African American women for the mural was so exhaustive that it became the basis for his doctoral dissertation at Penn State (1954).

With the help of a UNESCO fellowship in 1957, Dr. Biggers and his wife, **Hazel Hales Biggers**, visited the nations of Ghana, Togo, Dahomey (now the Republic of Benin) and Nigeria for six months. He documented his experiences in a book of drawings and text titled *Ananse, The Web of Life in Africa*, published by the University of Texas Press in 1962.

In 1967, Dr. Biggers was named a Distinguished Professor at Texas Southern University and in 1972 a Distinguished Alumnaus at Penn State. In 1990, he received an honorary doctorate of humane letters from Hampton University.

Dr. Biggers retired from teaching in 1983 and later returned to Gastonia where he established a studio. In the spring of 1993, his triptych print, "The Ark," was displayed in the Paul Robeson Cultural Center on the University Park Campus. Originally conceived at the Brandywine Workshop in Philadelphia, the ark with its three panels depicts various symbols of Africa and of African American life and culture.

Two years later, an exhibition of his work, organized by the Museum of Fine Arts in Houston and Hampton University, was shown at the North Carolina Museum of Art in Raleigh; The Wadsworth Atheneum, Hartford, Conn.; and the Museum of Fine Arts in Boston.

—Paul A. Blaum

Education projects spark interest; get funding nod

Forty-three projects aimed at improving the undergraduate experience will be funded this year by the Office of Undergraduate Education and the Instructional Development Program to the tune of \$107,574. This year, 176 proposals were submitted and the review committee was especially pleased by the quality of those proposals.

Examples of some of the funded projects include:

■ **Geo-Bots:** A Collaborative Design Project proposed by **Bob Avanzato** (engineering, Ogontz Campus) and **Bud Alcock** (earth and mineral sciences, Ogontz Campus)—This project will enable students to collaboratively design, implement, test and evaluate a mobile robot capable of mineral exploration in a desert environment.

■ **A Freshman Seminar Program** in the College of the Liberal Arts proposed by **Terry Peavler**—Funding for this project will help continue to expand this ongoing initiative to provide incoming freshmen with the best experience that Penn State has to offer (i.e., the teaching experience and research experience of a tenure-line faculty member in a small class setting).

■ **Aide to Reading Ancient Chinese Characters** proposed by **Susan Schoenbohm** (philosophy and women's studies, University Park)—This project would create a manual allowing students to visualize some of the basic meanings of many of the Chinese characters, without having to rely exclusively on someone else's translation of these texts.

■ **Exploring American Popular Culture and Folklore Through the Internet** by **Bill Ellis** (English and American studies, Hazleton Campus)—Funding will help students work collaboratively on topics relating to American popular and folk culture, using a homepage to link to relevant materials on the World Wide Web.

■ **Extending the Studio Through the World Wide Web** by **Donald Kunze** (integrative arts, University Park)—This project will make course materials available on the WWW for student groups who will design and maintain homepages in conjunction with projects "electronically" announced and distributed.

WHO'S REPAIRING THE MURALS?

Professional conservator **Manuel W. Theodore**, who operates a private studio in Baltimore, specializes in the conservation of American and European paintings executed in oil and tempera, media, on wood, fabric and metal supports; and the conservation of Greek and Russian icons and iconostases in Eastern Orthodox churches.

A member of the faculty of the Maryland Institute College of Art in Baltimore, he conducts a summer study abroad program called "Painting the Greek Island Landscape."

His recent clients have been the Palmer Museum of Art and the Centre County Library and Historical Museum in Bellefonte.

—Paul A. Blaum

The ARTS

AT PENN STATE



On display

"Coast Mine, India" is one of several photographs by Sebastião Salgado that will be on display beginning Tuesday, April 9, at the Palmer Museum of Art on the University Park Campus.

Odyssey Through Literature on WPSU

On the next episode of Odyssey Through Literature host **Leonard Rubinstein** speaks with **William McCarthy** of the Penn State Dubois Campus about the classic American tall-tale hero and his adventures.

McCarthy's latest book, *Jack and Two Worlds*, is a compilation of eight American folk tales that follow the escapades of the hero Jack.

By reading aloud two of the tales included in his work, Mr. McCarthy brings to life the "irresistible rhythm," as Rubinstein describes it, of premiere storytellers such as Ray Hicks and Frank Profit Jr.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WTSU, 91.5 FM.

Essence of a Joy concert

Essence of Joy, a choral ensemble in the College of Arts and Architecture School of Music, will present its first spring program "Everybody Rejoice!" at 7:30 p.m. Monday, April 8, in Grace Lutheran Church, 205 S. Garner St., State College.

Organized in 1991, Essence of Joy performs sacred and secular choral repertoire from African-American traditions. Alumni members of Essence of Joy will also share in this concert.

Tony Leach, instructor in music/music education, is the director of Essence of Joy.

International photo exhibit

An international exhibition and the latest photographic epic by renowned photojournalist **Sebastião Salgado**, titled "Workers, An Archaeology of the Industrial Age," will open Tuesday, April 9 and continue through Sunday, June 9 in the Palmer Museum of Art on the University Park Campus.

William E. Williams, professor of photography at Haverford College, will give a public lecture on Salgado's work at 7:30 p.m. Thursday, April 11, in the Palmer Lipson Auditorium.

Since 1973, Salgado's camera has focused on people and the challenging circumstances they face. He has documented epidemic starvation in Africa, the working conditions of migrants in Iraq, the lives of peasants in Latin America and refugees in Africa.

With a slide presentation and 200 photographs divided into specific series, "Workers" documents laborers and laborers in agriculture, industry, mining and construction. Salgado's photographs take viewers to nearly 50 different locations—from sugarcane fields in Brazil and fishing ports in Spain to textile mills in Bangladesh and slaughterhouses in South Dakota.

For more information, contact the Palmer Museum of Art at (814) 865-7672. Museum hours are: Tuesday through Saturday from 10 a.m. to 4:30 p.m.; Thursday evenings 6 to 9 p.m.; Sunday from noon to 4 p.m.; closed Mondays.

The lecture and exhibition are free to the public.

African storyteller

Shanta, an African American storyteller, will perform at Penn State Erie, The Behrend College, at 7 p.m. Tuesday, April 9, in the Reed Lecture Hall. The performance is free to the public.

Jazz ensembles to perform

The Inner and Outer Dimensions, two of the big bands in the jazz program, will perform in concert at 8 p.m. Tuesday, April 9, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Inner Dimensions, under the direction of **Chip Crotts**, a graduate teaching assistant in the jazz studies area, will perform a variety of music from the big band repertoire.

Outer Dimensions, under the direction of **Brian Watson**, a graduate teaching assistant in saxophone and jazz studies, will perform using several jazz styles.

The concert is free to the public.

"Play It Again Sam"

The Repertory Theatre of America, Alpha Omega Players, a national touring company, will perform Woody Allen's "Play It Again Sam" at 8 p.m. Wednesday, April 10, in Highcres Commons, on the Penn State Hazleton Campus. For more information, call (717) 450-3180.

Bach's Lunch

Voice students from the studios of **Sara Hopkins**, **Richard Kennedy** and **Marshall Urban** will perform at the Bach's Lunch concert at 12:10 p.m. Thursday, April 11, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute free concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and University Lutheran Parish.

Kelly Kilgus, soprano in the music education program, **Douglas Garner**, a baritone in the music education program, and **Kristin Lunetta**, a mezzo-soprano in the music education program, will perform.

The audience may take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided.

"Living in Lion Country"

The Theatre Workshop in Diverse Cultures (TWDC) will conclude its spring season with an original piece written by undergraduate playwrights **Julie Power** and **Chris Moses** and assistant professor of theatre arts **Charles Dumas**, titled "Living in Lion Country." The play, which dramatizes various points of view which surfaced last fall over such issues of diversity as the Million Man March, Nazi insignia, the Christmas tree, the O.J. Simpson trial and the AIDS Quilt, will be presented as part of The Ebony and Ivory Conference at 8 p.m. Thursday, April 11, in the Paul Robeson Cultural Center.

The TWDC is a performance-oriented class which explores the historic and contemporary theatrical works of various peoples in order to sensitize

BRYCE JORDAN CENTER

Upcoming events

■ **April 13-14**
Eastern National Wrestling Championships, Middle Atlantic Wrestling Association
Tickets on sale day of event.

■ **April 15**
Bush with special guest **Goo Goo Dolls** and added guest **No Doubt**, 7:30 p.m. All Tickets \$22.

■ **April 17**
Steve Miller Band, 7:30 p.m. Tickets \$20 Circle/All others \$15.75.

■ **April 19**
Arena Football - Albany Firebirds vs. Connecticut Coyotes, 7:30 p.m. Tickets \$20/\$15/students \$5 off with ID.

■ **May 4**
Royal Hanneford Circus, 10 a.m., 2:30 p.m., 7:30 p.m. Tickets: \$13/\$11 for adults; \$11/\$9 for children (12 & under).

■ **May 5**
Royal Hanneford Circus, 2:30 p.m. & 7:30 p.m. Tickets: \$13/\$11 for adults; \$11/\$9 for children (12 & under).

■ **May 17**
Brooks & Dunn with special guest **Tracy Byrd** and added guest **Dave Lee Murphy**, 7:30 p.m. Tickets \$23/\$19.75/\$15.75.

■ **June 14-16**
Preview '97 Regional Trade Show

students to the broad cultural diversity that exists in artistic expression. The TWDC is part of the College of Arts and Architecture Department of Theatre Arts.

The play is free to the public. Reservations are not required but can be made by calling (814) 863-9413.

One-act play at Hazleton

The dramatic one-act play "The Legacy of Dietrich Bonhoeffer" will be presented at 7:30 p.m. Thursday, April 11, in Room K-1 of the Kostas Classroom Building on the Penn State Hazleton Campus. The play takes place in 1945—just three weeks before the end of World War II. The play unravels to reveal the moral and personal battle of Bonhoeffer, who is awaiting death for his part in a plot to kill Adolf Hitler.

Author **Al Staggs** will present the program, which is free to the public.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, April 5

Shaver's Creek, 7 p.m. Frog Pond Foray.
For details, call (814) 863-2000.

Saturday, April 6

Shaver's Creek, 1 p.m. Whose Egg Is It?
For details, call (814) 863-2000.
Gallery Talk, 1 p.m., Christophers Lobby, Palmer Museum. Beth Lombardi on "Baroque Art at the Palmer Museum."

Sunday, April 8

■ Asian Awareness Week event, 7 p.m., 101 Classroom Bldg. Documentary "Who Killed Vincent Chin?"
■ Ebony and Ivory Week event, 7:30 p.m., HUB Fishbowl. William Cross on "Ethnic Myths."
Essence of Joy, 7:30 p.m., performing at Grace Lutheran Church, State College.
HUB/Robeson Building Design Forum, 7:30 p.m., HUB Gallery. Lounge and noon April 9. Open forums to provide brief history of HUB expansion/Robeson center project, current status and timelines.

Tuesday, April 9

School of Visual Arts, 10 a.m., Conference Room, Patterson Bldg. Emmet Gowin to speak on his photographic work. Also at 4 p.m., Palmer Lipson Auditorium. He will speak on "Three Decades of Photography: Emmet Gowin's Life Work."
Happy Valley Toast Masters, 11:45 a.m. lunch, noon meeting, Heritage Room, Redder Commons
Cross Cultural Health Program, 5 p.m., 301 HUB. General body meeting.

African/Hispanic/Asian/Native American Student Organization, 5:30 p.m., Carnegie Cinema. Local Asian American reporters will discuss careers in journalism, "Beyond Connie Chung."

Ebony and Ivory Week event, 7:30 p.m., HUB Fishbowl. Roundtable discussion of affirmative action, welfare, Proposition 187 and their impact.

■ "Distinctive Styles" concert, 8 p.m., HUB Fishbowl. "Limpopo," four-piece Russian folk'n'roll band.

School of Music, 8 p.m., Recital Hall. Jazz III.

Wednesday, April 10

Entomology, 7 p.m., 101 ASI. "Taking a Bite of the Perfect Apple," replacing pesticides with biological alternatives.

Center for Women Studies, 8 p.m., 121 Sparks Bldg. Katie Loestner to tell her story as a wife to promote rape prevention.
Ebony and Ivory Week celebration, 8 p.m., Eisenhower Auditorium. Edward James Olmos on "Can We Unify?"

■ Student Affairs, 8:30 p.m., Pollock Rec Room. A panel on "P.S.: I'm Asian."

Thursday, April 11

Pennsylvania Career Day, 10 a.m.-4 p.m., Bryce Jordan Center. "Careers in the Commonwealth." For information, call (814) 865-2377.

Penn State Quality Expo '96, 11 a.m.-3 p.m., Nittany Lion Inn Ballrooms.

Bach's Lunch Concert, noon, Eisenhower Chapel. Students from School of Music Voice Studies.

Theatre Arts, 5 p.m., Paul Robeson Cultural Center. The Theatre Workshop in Diverse Cultures presents "Living in Lion Country."

For more information, call (814) 863-9413.
■ Asian Awareness Week event, 7 p.m., 102 Forum Bldg. Christine Choy, documentary filmmaker, will speak about her film and Asian American civil rights issues.

Ebony and Ivory Week event, 7:30 p.m., HUB Fishbowl. "The Eye of the Storm," a roundtable discussion of why people hate and how easy it is to discriminate.



Lecture

Photographer Emmet Gowin will discuss his work at 4 p.m. April 6 in the Palmer Lipson Auditorium on the University Park Campus and at 10 a.m. April 9 in the conference room of Patterson Building. Both lectures are free to the public.

Palmer Lecture, 7:30 p.m., Palmer Lipson Auditorium. William E. Williams on "The Photographic Construction of Sebastião Salgado's 'Workers'."
School of Music, 8 p.m., Recital Hall. Penn State Male Ensemble Concert.

Friday, April 12

Gallery Talk, 2 p.m., Christophers Lobby, Palmer Museum. Glenn Williamson on "Sebastião Salgado and 'Workers'."

Asian American Student Organization, 7 p.m., HUB Ballroom. Fashion show and a night of cultural performances.

■ Ebony and Ivory Week event, 8 p.m., HUB. Lollapalooza, performances from Jazz Club, Caribbean Student Association Dancers and Angel Step Team.
School of Music, 8 p.m., Schwab Auditorium. "Opera Theatre." For information, call (814) 863-0255. Also April 13.

Saturday, April 13

Office for Minority Faculty Development, 9 a.m., 114 Kern. "Promotion and Tenure," development workshop. For reservations, call (814) 863-1663.
Shaver's Creek, 9:30 a.m. Reconnecting with Nature. Call (814) 863-2000.

■ Penn State International Dance Ensemble, 2 p.m., White Bldg. Dance Theatre. From "beled" dancing to the 90's American hip-hop style and from European music to American country western. Also at 7 p.m. For tickets, call (814) 863-3467.

■ Asian Awareness Week event, 7 p.m., 101 Classroom Bldg. "herandown," an Asian American acting troupe to present a show on Asian American issues (racism and themes of self discovery).
Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Ensemble Modern. For tickets, call (814) 863-0255.

Sunday, April 14

Shaver's Creek, 2 p.m. Spring Awakening.
Call (814) 863-2000.

School of Music, 2 p.m., Recital Hall. Singing Lions. For tickets, call (814) 865-0431.

University Concert Committee, 3 p.m., HUB Fishbowl. "Dixie Hummingbirds," black gospel quartet tradition of four-part harmony.
School of Music, 3 p.m., Eisenhower Auditorium. Penn State Symphonic Band.
School of Music, 5 p.m., Faith Union Church. Penn State Women's Chorus.

SEMINARS

Friday, April 5

University Records Management Program, 9 a.m., 517A Classroom Bldg. "Policies and Procedures Affecting Records and Information Management at Penn State." Also at 3 p.m. in 26 Hesler Bldg.

Marker Lecture in Evolutionary Biology, 10 a.m., 214 Boucke Bldg. Walter M. Fitch on "Adaptive Evolution in Viruses."
Ecology, 11 a.m. David Karow, speaker. Call for location, (814) 865-2054.

Center for Gravitation Physics and Geometry, 11:30 a.m., 339 Davey Lab. Steve Sawin on "Smooth Uniform Measures on the Space of Connections and Diffeomorphic Invariant States."

Physics, 2:30 p.m., 339 Davey Lab. Mike DuVernois, speaker.

■ Economic, 3:30 p.m., 403 Kern. Philip Levy on "Free Trade Arrangements and Inter-Bloc Tariffs."

Geophysics Office Hour, 4 p.m., 208 Walker Bldg. Paul F. Stars on "Things Weaken: Intermittent Growth and the Decline of California."

Monday, April 8

Agricultural Sciences, 10:30 a.m., 101 ASI. Robert Thompson on "World Food Demand, Agricultural Research and the Environment: The Essential Nexus." Also at 7:30 p.m. on "A Vision of the Future of Land Grant Colleges: Research, Education and Outreach."

University Records Management Program, 10 a.m., Alumni Lounge, First Floor Old Main. Policies and procedures affecting Records and Information Management at Penn State.

Comparative Literature, 12:15 p.m., 101 Kern. Santa Cascardi on "Consider the Rose, Whom it Grows: Jean de Meun and Dante."

Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Bldg. Ali Haghighat on "Parallel Algorithms for the Linear Boltzmann Equation - Phase Space Decomposition and Iterative Methods."

■ East Asian Studies, 4 p.m., 102 Weaver Bldg. David Benish on "The Ecology of Compassion: Gary Snyder's Buddhist Vision."
■ German, 4:30 p.m., Rare Books Room, Pattee Library. Hans-Albrecht Koch on

"America as Seen by a Traveling German Author: Johann George Kohl (1808-78)."
National Association of Minorities in Cable, 7:30 p.m., Carnegie Cinema. Linda Guess Farris on "Television Careers: A Guide to Breaking and Entering."

Tuesday, April 9

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Denis Wirtz on "Direct Measurement of Transport Properties of a Single DNA Molecule."

Graduate School of Public Policy and Administration, 3 p.m., 515A Henderson Bldg. Kathryn Dansky on "Strategic Orientation and Total Quality Management: Linking Vision to Action."

Geosciences, 3:30 p.m., 112 Walker. Gerald Joyce on "The RNA World Hypothesis."

Ecology, 3:45 p.m., 107 Warrick. Debbie Campbell on "Assessing the Performance of Created Wetlands: A Spatial and Temporal Analysis."

Biology, 4 p.m., 8 Mueller Lab. Don Ready on "Drosophila Eye Development: Cytoskeletons in the Closet?"

Food Science, 4 p.m., 117 Bortland Lab. Patricia Chincholoff on "Thermomechanical Properties of Polymers in Relation to Staling and Toughening."

11:45 Lecture in Chemistry, 8 p.m., 104 Keller. Thomas R. Cech on "RNA Catalysis: Discovery, Origins of Life and Medical Possibilities."

Wednesday, April 10

Continuing and Distance Education, 11:45 a.m., 502 Keller. Alan B. Guigley on "Literature and Science: The Deacon's structure of Our History and Myths."

■ Science, Technology and Society (STS) Program, noon, 118 Willard. Deborah Wheeler on "Communication Technology and the Social Construction of Reality."

■ Slavic and East European Languages, noon, 406 Oswald Tower. Victoria Koryteva on "Nationality Problems of the Russian Federation."

Gerontology, 12:15 p.m., 101 H&H East. Darin Ellis on "Gerontology and Information Technology: The Role of Engineering."

Prestisley Lecture in Chemistry, 4:15 p.m., 502 Oswald Lab. Thomas R. Cech on "How to Accelerate Research: 100,000,000-fold Using Only RNA."

Thursday, April 11

Prestisley Lecture in Chemistry, 12:15 p.m., 502 Oswald Lab. Thomas R. Cech on "Building an Active Site with Ribonucleotides."

Ecology, 3:45 p.m., 108 Warrick. Jonathan Gershenson on "Metabolic Costs of Plant Defense: Monoterpenes in Mints."

Russell Lecture in College of Health and Human Development, 4:15 p.m., 209 Henderson Bldg. South. John Milner on "A Clove at Day: The Role of Garlic in Modifying the Cancer Process."

Mueller Memorial Lecture, 8 p.m., 112 Kern Bldg. Herbert Walker on "Photons - Atoms - Waves, New Tests of Quantum Phenomena."

Friday, April 12

Mueller Memorial Lecture, 11 a.m., 339 Davey Lab. Herbert Walker on "The Quantum Optics of a Single Atom."

Philosophy, 4 p.m., 218 Willard. Dimitri Gress on "Beyond Modernity But Not Postmodernity: The Human Sciences at the End of Modernity."

EXHIBITS

For a listing of current exhibits, log-in to the Internet Web site at <http://www.ursi.edu/INTERCOM/home.html> and click on the calendar button.

■ Reflects an international perspective

Bryce Jordan Center officially dedicated with gala event

Penn State officially dedicated The Bryce Jordan Center on March 30, its landmark building on the University Park Campus for athletics, academic gatherings, conventions, and entertainment and cultural events. The 16,500-seat Jordan Center opened Jan. 6 after two-and-a-half years of construction. Funds for the \$55 million structure came from a \$33 million state appropriation and \$22 million in private gifts.

The Jordan Center's opening event — commencement for Penn State's fall 1995 graduating class — was the first time in many years that one location at University Park was able to accommodate all undergraduates, their families and friends. Since then, the center has hosted 31 events that have attracted more than 300,000 people.

The Jordan Center, the third-largest facility of its kind among Big Ten universities, will create at least 500 permanent jobs in the State College area, according to Penn State estimates.

Its annual economic impact is estimated at \$24 million, mostly in the form of increased food service and lodging activities, retail shopping and transportation-related expenditures in Centre and surrounding counties.

Individuals, businesses and organizations in central Pennsylvania contributed about \$5 million during the fund-raising campaign, which began in April 1991 and lasted 18 months.

The University's Board of Trustees named The Bryce Jordan



Thumbs up

Former University President Bryce Jordan answers media questions after the formal dedication of The Bryce Jordan Center on the University Park Campus. Roughly 1,500 people attended the March 30 gala. The center, which opened with commencement ceremonies on Jan. 6, is the third-largest facility of its kind among Big Ten universities and has already had more than 300,000 cross its threshold.

Photo: Greg Grieco

Center in Nov. 1992 to recognize the academic advances Penn State made under its president, **Bryce Jordan**,

from 1983 to 1990. It was also President Jordan who counseled, while the facility was still in the discussion

stage, that it should be of the broadest possible use to the University community and the state.

Arts

continued from page 14

Mallet Ensemble concert

The Penn State Mallet Ensemble, under the direction of **Dan C. Armstrong**, associate professor of percussion, will perform its annual spring concert at 8 p.m. Thursday, April 11, in the School of Music Recital Hall on the University Park Campus.

Richard C. Gipson, director of the School of Music at the University of Oklahoma, will appear as guest conductor for the concert. Dr. Gipson, who received his doctorate in music education at Penn State in 1978, will be on campus to be honored by the College of Arts and Architecture with an Alumni Achievement Award. For this concert he will conduct two of his own arrangements for mallet ensemble, which have been published by the OU Press.

Michael Hooper, **Erik Liebegott** and **Teri Stephens**, all undergraduate percussion majors, will perform a trio for marimbas titled "Horse Thief."

The concert is free to the public.

Dixie Hummingbirds

It took the musical and spiritual foresight of an 11-year-old James Davis to start a gospel quartet in South Carolina in 1928. Then called the Church of

God Juniors, the Dixie Hummingbirds have been performing for close to 70 years, and will be in concert at 3 p.m. Sunday, April 14, in the HUB Fishbowl on the University Park Campus. Sponsored by the University Concert Committee and the Paul Robeson Cultural Center, the concert celebrates the Hummingbirds as Pennsylvania's own since they moved to Philadelphia in 1942. Although there have been five different sets of Dixie Hummingbirds singers, they have always remained true to the black gospel quartet tradition of four-part harmony. This is their second appearance at Penn State.

The group backed Paul Simon on his hit "Love Me Like A Rock," and later garnered a Grammy for Best Gospel Performance with their cover of the song.

ICE RHYTHMS

The Penn State Ice Pavilion will present ICE RHYTHMS, an ice show directed by **Dena Yeagley**, at 7:30 p.m. Friday, April 19 and Saturday, April 20.

The program will include solos by visiting national and international figure skating competitors, featuring

Derrick Delmore, 1995 senior men's eastern champion and U.S. Nationals competitor, representing the Washington Figure Skating Club; and junior men's national silver medalist **Jeff Merica**, representing the University of Delaware Figure Skating Club. ICE RHYTHMS will also feature the senior pairs team of **Tristan Vega** and **Paul Binnebose**, representing the University of Delaware Figure Skating Club. Also included will be solo and group numbers by resident professionals and skaters from student and public programs.

Advance general admission tickets are \$5 for student/youth and \$7 for adults. The advance tickets are available through April 18 at the Penn State Ice Pavilion main counter. Tickets purchased April 19 and 20 will be \$6.50 and \$8.50. Tickets are also available by mail. Call (814) 865-4102. There is limited seating, so early purchase of tickets is encouraged.

Community Arts Center events

The Community Arts Center in Williamsport, part of the Pennsylvania College of Technology, will be host for

the following events in the coming months:

■ Doug Stone with opening act

Patricia Conroy

April 19 at 7:30 p.m. Tickets are \$30, \$25.50, \$20.50 and \$18.50.

■ Musicians from Marlboro

A continuing special mini-series, this chamber ensemble — part of Vermont's Marlboro Music Festival — will play selections from Beethoven and Schumann beginning at 8 p.m. April 22. Tickets are \$17.50, \$14.50 and \$10; with special prices for children 16 and under.

■ **Pops, Jazz & Pizzazz!** The Williamsport Symphony Orchestra May 7 at 7:30 p.m. Tickets are \$35, \$30, \$24, \$19, \$16 and \$12.

■ "Crazy for You"

At 8 p.m. May 22 this Gershwin musical comedy takes the stage. "Crazy for You," the 1992 Tony-award winner for Best Musical, is a boy-meets-girl love story that's perfect for the whole family. Tickets are \$32.50, \$27.50 and \$22.

For tickets or more information, call the Community Arts Center box office at (717) 326-2424 or 1-800-432-9382.

Private Giving

■ All-Sports Hall of Fame gets major boost

Paternos lead the way with \$250,000 donation

Head football Coach Joe Paterno and his wife, Sue, moved the University's All-Sports Hall of Fame one step closer to reality with a gift of \$250,000 to the fund-raising effort.

The Hall of Fame, currently the focus of a \$5 million capital campaign, will be the repository for team and individual trophies that showcase Penn State's rich athletic legacy. It also will create a location where letter winners can gather to stage reunions and other celebrations.

The \$250,000 donation to the All-Sports Hall of Fame is one of several gifts the Paternos have made to University capital endeavors. Previously, they provided major support to the Campaign for Penn State, the Campaign for the Library, the effort to construct The Bryce Jordan Center, the Paterno Libraries Endowment and a fund to award minority scholarships.

"I believe this very generous gift underlines the importance Joe and Sue Paterno attach to this undertaking," Timothy Curley, director of athletics, said. "The unique aspect of this campaign is that we are raising funds from the people who created the legacy — the Penn State coaches and student-athletes whose successes the building will celebrate."

Coach Paterno said that although the completion of the Jordan Center was a milestone in the upgrading of the University's athletic facilities, it is not the end of the effort.

Three-time football letterman gives \$50,000

Roy L. Schuyler, a Lock Haven native and three-time Nittany Lion football letterman, has given Penn State \$50,000 for the All-Sports Hall of Fame.

Mr. Schuyler, who received his bachelor's of science degree in chemical engineering in 1937, is a retired vice president-general manager for E.I. du Pont de Nemours & Co. During his career at Du Pont, he worked with explosives, plastics and organic chemicals, helping to develop such products as monofilament fishing line, nylon strapping and polyethylene pipe. He is a former member of the American Institutes of Chemical Engineers and past secretary of the Society of the Plastics Industry.

His wife, Delcena, received her master's and doctoral degrees from Penn State in chemistry. Their son Roy is also an alumnus — he earned a master of science degree and a Ph.D. from the College of Earth and Mineral Sciences.

The couple resides in Delaware.

"The All-Sports Hall of Fame is the next significant project that must be addressed," he said.

In addition to their personal financial support, the Paternos have been heavily involved as volunteers in Penn State fund-raising efforts.

Charitable trust adds \$50,000 to project total

The Windber-based Whalley Charitable Trust has given Penn State \$50,000 for the All-Sports Hall of Fame.

The gift from the trust will join those from former student-athletes who are pledging their resources to ensure that the Hall of Fame will become a reality.

In recognition of its gift, Penn State will name the men's gymnasiums area for the trust.

Penn State has received gifts from the Whalley Charitable Trust in the past. In 1993, for example, the trust established a memorial scholarship in football in honor of the late head of the family, J. Irving Whalley.

The trust tends to support higher education, human service and community development initiatives.

They chaired the Campaign for the Library, which generated nearly \$12 million for the expansion of Pattee Library. The Board of Trustees voted to name the library expansion in honor of the Paternos.

Both serve on the National

Development Council, which plans the University's fund-raising efforts. Joe Paterno also was vice chair of the Campaign for Penn State and a member of the Jordan Center steering committee.

A native of Latrobe, Suzanne Paterno earned a bachelor's degree in arts and letters from Penn State in 1962. In addition to her service in the library campaign and the National Development Council, she is chair of the Libraries Development Advisory Board, a volunteer group that leads the Libraries' ongoing fund raising. She is a member of the board of directors of the Pennsylvania Special Olympics. She received an annual award from the Lion's Paw Society last year and was inducted as an honorary member of the Penn State Football Lettermen's Club in April 1995.

Joe Paterno, a member of the Penn State athletic staff for 46 years, has been the head football coach since 1966. In his 30 seasons at the helm, the Nittany Lions have won 278 games, lost 72 and tied three, a success rate of 79.1 percent.

He is No. 1 among active major college coaches in victories and No. 3 in winning percentage. Coach Paterno's victory total ranks him No. 4 on the list of all-time winningest Division I-A coaches. Only Bear Bryant, Amos Alonzo Stagg and Pop Warner have won more games than Paterno.

Local physician donates antique medical equipment to Fayette Campus

Fayette County's historical preservation efforts were recently enhanced when a local physician, Regis M. Maher, donated an antique medical instrument collection to the Fayette Campus. The collection includes many artifacts that were used in the practices of locally renowned physicians.

The collection, which consists of approximately 200 medical instruments and medical memorabilia, will be displayed on the main floor of the campus library.

Some of the more notable items include an amputation kit, a 1900 bed pan, a stainless steel hot water bottle, an 1890 microscope, a surgi-

cal sewing machine for suturing wounds, a circa 1930 wooden wheelchair, Uniontown Hospital staff photos dating from 1934 and yearbooks of the Uniontown Hospital School of Nursing dating from 1938. Among the various medical journals and textbooks included in the collection is the *History of the Medical Profession in Fayette County, Pennsylvania*, written in 1928 by Jacob Hackney.

Dr. Maher graduated with a bachelor's degree from St. Vincent College in 1932. He received his doctor of medicine degree from the Georgetown University School of Medicine in Washington, D.C., in 1936.

Pennsylvania Turfgrass Council gives University program \$292,000

Last year, the Pennsylvania Turfgrass Council gave Penn State \$292,000 to support the turfgrass science program, an interdisciplinary program housed in the College of Agricultural Sciences.

The Bellefonte-based council designated its support for the three disciplines within the turfgrass science program: agronomy, entomology and plant pathology. The departments could use the funds for staff and research support for projects designed to solve problems relating to turfgrass pests and other agricultural practices used in the turfgrass industry.

The turfgrass science program

offers study in all aspects of the turfgrass industry, which includes golf courses, surfaces for recreation and sports, areas surrounding highways, airports, industrial parks and schools, and ornamental landscapes.

Founded in 1955, the Pennsylvania Turfgrass Council is a non-profit organization dedicated to the improvement of the turfgrass industry, primarily through research. Its membership includes 900 individuals and 160 corporations. Since 1974, the council has contributed more than \$1 million to the turfgrass science program at Penn State.

Awards

Math assistant professor named Sloan Research Fellow

The Alfred P. Sloan Foundation has selected **Diane Henderson**, assistant professor of mathematics, as Research Fellow. The foundation awards 100 fellowships annually to faculty in the United States and Canada who are in the early stages of their research careers and who have exceptional promise to contribute to the advancement of knowledge in physics, chemistry, computer science, mathematics, neuroscience or economics.

Started in 1955, the Sloan Research Fellowship Program is one of the oldest fellowship programs in the nation. Sloan Fellows receive unrestricted grants of \$35,000 for a two-year period to pursue the lines of research inquiry that most interest them.

Dr. Henderson's research involves the behavior of waves in fluids and her approach incorporates laboratory experiments to test and guide theoretical predictions. Her work has a variety of applications, from remote satellite sensing of the sea surface to understanding how contaminants, such as oil, affect the behavior of waves.

Dr. Henderson earned her bachelor's degree in engineering sciences in 1984 and her master's degree



Diane Henderson

Florida before joining the Penn State faculty in 1991. In 1992 she received both the National Science Foundation Young Investigator Award and the David and Lucile Packard Foundation Fellowship in Science.

in 1986, both at the University of Florida. She completed her doctoral degree in physical oceanography in 1989 at the Scripps Institution of Oceanography of the University of California at San Diego, where she was awarded the Achievement Award for College Scientists Fellowship.

She held a research position at the University of

Professor receives ASME Fellowship

Irwin Feller, professor of economics, has received a fellowship from the American Society of Mechanical Engineers (ASME International).

In his role as State Government Fellow, Dr. Feller will evaluate the impact of technology on the Pennsylvania economy, contributing expert opinion and analysis to the public policy process statewide. Among other activities, he also will assess global technology trends as they impact pending economic development policies and programs in his home state of Pennsylvania.

Dr. Feller, director of the Institute for Policy Research and Evaluation, is an expert in technology transfer, technology-based economic development and related areas. In the 1970s, he received a series of grants from the National Science Foundation to direct national studies of the

sources and uses of scientific and technical information in state legislatures.

More recently, he has consulted with the National Conference of State Legislatures, Science and Engineering Foundation, President's Office of Science and Technology Policy, and several other organizations on federal and state technology programs and technology-based economic development. He is author of *Universities and State Governments* and has contributed to books by Macmillan Press, John Wiley and other notable publishers.

Since 1972, ASME has been dedicated to improving state legislatures' capacity to make informed decisions on matters relating to engineering. ASME's State Government Fellows help assure that science and technology components are properly assessed as pending legislation is developed.

CES dean recipient of mentoring award

Robert E. Dunham, senior vice president and dean for the Commonwealth Educational System, has received the Rosemary Schraer Mentoring Award by the Commission for Women. The Schraer award, created in June 1994, recognizes a University employee for mentoring by advising, facilitating, encouraging and/or paving the way for others to recognize and realize their potential in both personal and professional endeavors. The award was established by the family, friends and colleagues of Rosemary Schraer, former associate provost of Penn State and former chancellor of the University of California, Riverside.

Dr. Dunham's service to the University spans more than 35 years. Before serving as senior vice president and dean of the CES, Dr. Dunham held the positions of vice president and vice provost, vice president for academic services, vice president for undergraduate studies and professor of speech communication.

Dr. Dunham's commitment to diversity is evidenced by his crucial support of and pivotal role

in the establishment of the Commission for Women, the Commission on Racial/Ethnic Diversity and the Commission on Lesbian, Gay and Bisexual Equity. As recognized in one of the nominating letters, Dr. Dunham is the appointing authority directly responsible for the presence of many of the women in administrative positions at Penn State.

Dr. Dunham was nominated for the Schraer award by several women faculty and staff. Nominators describe his mentoring style as "always honest and straightforward, respectful of my skills and professionalism ... at the same time, he is a demanding supervisor, setting high standards for performance and outcomes. He pushes people with whom he interacts to think more globally and challenge established parameters."

Both formally as a mentor to an Administrative Fellow and informally with colleagues, Dr. Dunham is described as one who "mentors naturally."

"For him it is an accepted, ongoing professional responsibility," one nominator wrote.

Assistant professor cited for leadership

Diana Cox-Foster, assistant professor of entomology, is the winner of the 1995 Mentor Award from the American Association for the Advancement of Science. The award honors individuals who, during a period of 10 years or less, have demonstrated extraordinary leadership efforts to increase the participation of women, minorities and individuals with physical disabilities in science and engineering fields and careers.

Since coming to Penn State in 1987, Dr. Cox-Foster has been personally involved with 14 high school students, 18 undergraduates and 24 graduate students or postdoctoral scholars as either their major professor, graduate committee member or research adviser.

Through the Pennsylvania Governor's School for the Agricultural Sciences, she has mentored high school students in independent research projects. She has been involved for three years with the "Expanding Your Horizons in Science and Mathematics" program held for girls in grades six through nine, and is co-adviser for the Penn State Chapter of the Association for Women in Science.

Dr. Cox-Foster has helped students receive research grants, has participated in six different training grants at Penn State, and has encouraged students to become involved in a variety of programs to reach their full potential. Since 1987, 19 undergraduates have participated in her lab's research.

While working on her master's and doctoral degrees at the University of Illinois, Urbana-Champaign she was awarded an NSF Predoctoral Graduate Fellowship, named a University Fellow and was recognized for excellence in teaching. She is a member of the American Association for the Advancement of Science, the American Society of Zoologists and the Entomological Society of America.

In 1995 she was the first recipient of the Rosemary Schraer Award for mentoring activities "that go beyond the requirements of employment."

Admissions, advising coordinator wins award for excellence

Judith A. Cary, coordinator of admissions and advising at the Penn State Allentown Campus, has been named the recipient of the 1995 Alumni Relations Excellence Award, which recognizes outstanding work with alumni.

Mrs. Cary was recognized by the Alumni Association for her leadership in innovative projects with alumni in the Allentown area, including her work on a career directory which lists more than 400 local alumni. Mrs. Cary also helped organize receptions for all students in the area offered admission to any Penn State campus and held a Penn State preview program for families of ninth- and tenth-graders.

She has been employed by the University for 22 years and is a graduate of Penn State.

Research

Trio aims to reduce wastewater trouble in paradise

By ANDREA ELYSE MESSER
Public Information

Flushing a toilet in the Florida Keys brings the haven's artists, musicians and writers closer to its marine and reef creatures. That's why Penn State researchers are investigating the pathways taken by sewage disposed of in injection wells on the islands.

To protect the recently created Florida Keys National Marine Sanctuary, the U.S. Environmental Protection Agency and the state of Florida have implemented a water quality program to identify pollution sources and determine ways to reduce or eliminate this pollution.

"Wastewater disposal practices in the Keys include septic systems for single dwellings and injection wells for larger installations," **Lea Monaghan**, graduate student in geosciences, said.

Injection well systems usually consist of some way to screen, settle, aerate and chlorinate the wastewater before it is injected into 90-foot-deep wells. These wells are lined down to about 70 feet so that the wastewater enters the groundwater below that point.

Working with **Lee R. Kump**, associate professor of geosciences, **Peter J. Steinberg**, graduate student in geosciences, and the St. Petersburg, Fla. office of the U.S. Geological Survey, Ms. Monaghan is investigating where the nutrients in the wastewater go and what happens to them.

The researchers are using an existing injection well system at the Keys Marine Laboratory, run by the



Peter J. Steinberg, left, graduate student in geosciences, works with fellow graduate student Lea Monaghan and Lee R. Kump, associate professor of geosciences, to examine sample cores from the Florida Keys. They are working to identify water pollution sources and determine ways to reduce or eliminate them.

Photo: Greg Grieco

Florida Institute of Oceanography, on Long Key.

"The facility was originally built to be 'Shark World,' so they expected large numbers of people each day and the wastewater disposal system was built to accommodate those numbers," Ms. Monaghan said. "Because it is now a research lab, they are very flexible in allowing us to run our experiments with these wells," she said.

The experiments include drilling four wells five meters from the injection well at the cardinal points and one well 15 meters to the south. These wells are used to check the dispersion of the sewage plume through the calcium carbonate rock.

The researchers are tracing nitrates, nitrites, ammonia and phosphate. High concentrations of these nutrients in the fragile ocean reef ecosystem can cause algal growth, which damages or kills the corals, the main components of the reefs.

On Saddlebunch Key, the researchers will carry out a parallel, but less intensive, study using wells installed by the Florida Department of Environmental Protection. They hope this second site will validate information obtained from Long Key.

Preliminary studies show that the sewage plume disperses in a north-south direction, which would

indicate that the wastewater is being pulled out toward the ocean when the tide goes out and pushed toward the bay when the tide comes in. This action, called tidal pumping, may be key to pinpointing the path taken by the wastewater.

Some geologists theorize that there is a relatively impermeable layer of sediments that keeps the wastewater underground until it reaches a reef, where it seeps up and enters the seawater. Another possibility is that the wastewater, which behaves as fresh water, is lighter than saltwater and rises through the porous carbonate rock. The tests at Long Key will determine which mechanism is at work.

Another aspect of the project is determining the effect of carbonate rock on the nutrient load.

"There is some indication that phosphate decreases with respect to total nitrogen as the sewage flows through the carbonate rock," Ms. Monaghan said. "The calcium carbonate in the rock could be reacting with the phosphate to form carbonate fluorapatite — a material similar to that which forms teeth, which would remove the phosphate from the wastewater."

Sampling at the test wells will indicate if phosphate is being removed from the wastewater, and how rapidly this occurs.

If the carbonate rock is cleaning some of the phosphates from the wastewater, it might be possible to improve the amounts of phosphate and thereby mitigate some of the damage done by nutrients seeping into the oceans.

Corporate "downsizing" by any other name just isn't quite the same

By GARY W. CRAMER
Public Information

Clinically speaking, workforce reductions ranging in scale from the recent loss of about 250 jobs at Knight-Ridder Inc.'s Philadelphia newspaper division up to the planned elimination of 40,000 jobs by AT&T and beyond can all be called "downsizing."

However, the failure of the catch-all term to convey the scope of strategic changes within different organizations suggests a better understanding of the various approaches to workforce reduction is called for by the media and the public, a researcher said.

Rocki-Lee DeWitt, assistant professor of strategic management in The Smeal College of Business

Administration, outlined the different effects of three major downsizing options — downsizing, downsizing and retrenchment.

■ **DOWNSIZING** reduces product or service output while maintaining variety. An example would be temporary plant closures in the auto industry to keep supply in line with demand.

■ **DOWNSIZING** reduces variety and may or may not change output. In some cases, output can increase if the firm successfully transfers employees and plants from the discontinued products or services to those that were retained.

■ **RETRENCHMENT** is where the firm tries to maintain variety and output but rearranges where

products or services are produced in order to improve efficiency. Most recent plant closures in Pennsylvania fall under this category. Dr. DeWitt said, as companies moved to more cost-effective locations.

"Each approach has the potential to involve employment cuts — but what types of employment are targeted depends upon the approach," Dr. DeWitt said. "When downsizing is used, direct labor is cut. When either downsizing or retrenchment is used, both direct and indirect labor may be cut.

"Furthermore," she said, "which approach gets used in well-thought-out situations usually depends upon characteristics of the industry and the firm undertaking the downsizing. Choosing the wrong approach

can be perilous to a firm's well-being."

For instance, the focus of Dr. DeWitt's paper, an examination of the agricultural equipment industry showing the period 1957-1987, covers that retrenchment was the favored strategy for individual firms to play "catch-up" with competitors. However, by and large, the strategy did not pay off if adequate investments to update plant, property and equipment had not first been made by the retrenching firm but had been made by the competition.

The lesson is that unless your downsizing actions make you better than your competitors, those actions are likely to lead to failure and possible absorption by the competition," Dr. DeWitt said.

WEB BROWSER

By DOUG STANFIELD
technology editor

Online journal could be a first

Claiming to be the nation's first online academic journal in the field of public administration and management, is a site on the World Wide Web, created and edited by faculty at Penn State Harrisburg.

With a national and international editorial board of more than two dozen scholars, the publication — *Public Administration and Management: An Interactive Journal* — publishes articles for both scholars and practitioners in public administration and management. It aims to maintain high standards by using a traditional format and a double-blind, refereed system for the selection of content.

Jack Rabin and Robert Munzenrider are the editors; Sherrie M. Bartell is associate editor.
URL: <http://www.hbg.psu.edu/faculty/jsr1/>

Quick clicks...

■ "Pull over, buddy." The University Police Services is on the Web, too. This site includes information on all of the activities and services the office provides.
URL: <http://cac.psu.edu/~fd1/>

■ Computer lab usage online: Want to know if you should tudge out in bad weather to use a computer lab on campus? A new Web page that shows the numbers of PCs and Macs in use and available might make your decision easier. Tables are updated every minute. Pick "Current Lab Use" from
URL: <http://dsg.cac.psu.edu/pals/>

■ CIC Connection: The Office of University Relations has added a complete link to the Committee on Institutional Cooperation (CIC). The CIC, established in 1958, is the academic consortium of 12 major teaching and research universities. Its programs and activities extend to all aspects of university activity, except intercollegiate athletics.
URL: <http://www.ur.psu.edu/CIC/CICIndex.html>

Carpoolers

Riders wanted for vanpool from Houtzdale to Osceola Mills to Philipsburg to University Park. Call Larry at 865-1495, 8 a.m. to 5 p.m. or call 378-5391 after 6 p.m. and weekends.

Carpool of four is seeking an additional rider to share ride from Philipsburg to University Park. Hours are 8 a.m. to 5 p.m., Monday-Friday. Phone 863-8520 or 863-2782 if interested.



Greetings

William C. Richardson, president and chief executive officer of the W.K. Kellogg Foundation, chats with Rose Oswald, widow of former University President John W. Oswald. Dr. Richardson gave the 1996 John W. Oswald Lecture in Higher Education on March 25.

Photo: Greg Grieco

Promotions

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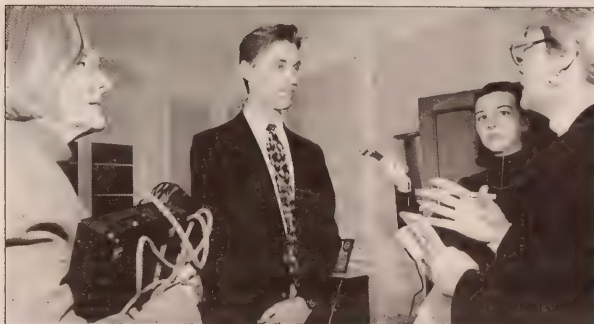
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*"Sure there's a calculated risk involved ...
but there's a risk just driving to work in the morning, too."*



Hand-picked

James Pawelczyk answers reporters' questions at a press conference announcing his selection as a payload specialist in training for a possible 1998 space shuttle mission. Dr. Pawelczyk may become the first Penn State faculty member to fly on a shuttle mission.

Photo: Greg Grieco

Faculty member chosen for shuttle mission

If all goes well, a Penn State faculty member could be sent into orbit on a 16-day research mission aboard Space Shuttle Columbia.

James Pawelczyk, assistant professor of applied physiology in the College of Health and Human Development, has been chosen to train as a payload specialist for the 1998 space shuttle flight and could become the first Penn State faculty member to fly on a shuttle mission.

"I'm absolutely delighted by this opportunity," Dr. Pawelczyk said. "I'm getting the chance to collaborate with 31 of the best investigators in the world in the area of neuroscience research. It's way cool."

NASA named Dr. Pawelczyk, 35, as one of four payload specialists on the NeuroLab mission, scheduled to be launched aboard the shuttle Columbia on March 5, 1998.

The mission, jointly sponsored by the space agency and the National Institutes of Health, will focus on neuroscience research.

Of the four payload specialists, only two — to be chosen early next year — will actually fly on the NeuroLab mission, joining five career astronauts on the seven-member crew. The two payload specialists who are not chosen will serve as alternates.

Payload specialists are responsible for conducting experiments on behalf of about two dozen researchers divided among eight teams, according to Dr. Pawelczyk.

"There is still a great amount of responsibility in being the backup. You have to be ready to fill in even up to the

See "Shuttle" on page 3

New faculty asked to become "road scholars"

Just coming off a yearlong tour of the state himself, President **Graham B. Spanier** plans to hit the road again — this time with new faculty in tow.

A two-day bus tour of parts of Pennsylvania sponsored by the president will be held May 15 and 16. Aimed at introducing new faculty members to the Commonwealth, the tour is still in the planning stages.

The "Tour of the Commonwealth" should not only provide new faculty with insight about the various regions of Pennsylvania that are served by Penn State, but should also show faculty the vast impact the University has on the state as a whole.

"This month, I will conclude a journey I began in September to visit all 23 Penn State campuses, major cities in the state, alumni groups, manufacturing plants and scores of high schools and community groups," Dr. Spanier said. "During this year-long tour I rediscovered much about Pennsylvania and its people. But I was most amazed to learn the true impact Penn State has every day on so many lives. It's my hope that this tour will give faculty a glimpse of some of that impact."

All meals, lodging and transportation will be provided by the University. Dr. Spanier said the invitation for the bus tour is being extended to new faculty hired since July 1, 1994.

The tour will include visits to some Penn State campuses, county extension offices and tourist sites; meetings with lawmakers; talks with experts on various subjects; and more.

Anyone wishing to take part in the tour or needing more information, should contact the Office of University Relations at (814) 863-1028.

Inside



Spring concert

The International Dance Ensemble will perform traditional dances, music and song on April 13 on the University Park Campus. For information on the time and place of the event, see the calendar on page 9.



Labor pains

According to one Penn State researcher's work, labor unions could benefit from putting labor law reforms into state hands. For the full story, see page 15.

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DIVERSITY

Annual German Day planned for April 17

The annual "German Day," sponsored by the Department of German, will be held on April 17 at University Park and will focus on the theme "We Are Foreigners. Almost Everywhere."

The phenomenon of nearly 4 million foreigners living in Germany alone has been a point of discussion in both high school and university curricula. For the second year in a row, high school teachers, administrators and students from the surrounding counties will examine issues related to diversity and acculturation in Germany, Austria and Switzerland.

Demonstrations, games, poster and speech contests and mini-classes will not only highlight the day, but will also test student skills in various areas ranging from translation to proficiency in language usage.

Susan Welch, dean of the College of the Liberal Arts, will open "German Day" at 9 a.m. in the HUB Ballroom. For more information on the event, contact organizer Gerhard F. Strasser by telephone at (814) 863-7485 or by e-mail at gfs1@psvm.psu.edu.

French movie concludes women's film series

Penn State Erie, The Behrend College, will conclude its 1995-96 Women's Film Series with a screening of "Café Au Lait" at 7 p.m., April 19, in the Reed Lecture Hall. Admission is free to the public.

"Café Au Lait" is a fast-paced, high-spirited comedy about race and romance in the Parisian melting pot.

Ursula Davis, assistant professor of communication at Penn State Behrend, will introduce the film. Another Penn State Behrend faculty member will lead a discussion afterward.

The Women's Film Series is sponsored by the Penn State Behrend Office of Student Activities. For more information, call the Office of Student Activities at (814) 898-6171.

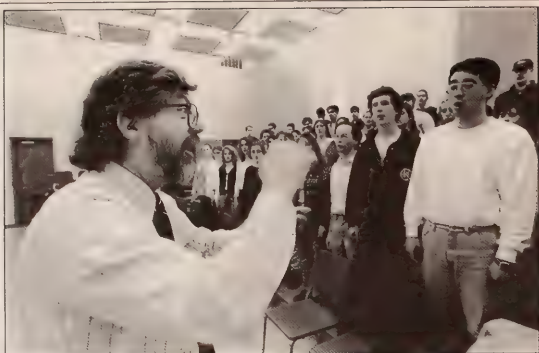
Commission for Women seeks new members

The Penn State Commission for Women is seeking nominations for membership.

The commission serves as an advisory group to the president of the University on matters affecting women of the University. Its purpose is to promote the efforts of women and to serve as a forum for the exchange of ideas within Penn State. The entire women's community of Penn State is represented by the Commission for Women. Its membership includes faculty, staff exempt and non-exempt, administrators, technical service workers, and graduate and undergraduate students. Members of the commission come from throughout the Penn State system and are appointed to serve three-year terms.

The commission is actively seeking nominations, including self-nominations, from all women, particularly those whose cultural, racial or ethnic backgrounds who would enrich the understanding of the needs and concerns of women throughout the University. The commission values diversity in its membership and is actively seeking a broad base of nominations.

Nomination forms may be obtained from the Commission for Women Office, 311 Grange Building, or by calling (814) 865-1683. Nominations must be returned to the commission office no later than April 22. For further information, please call the commission at the above number.



Practice makes perfect

D. Douglas Miller, professor in the School of Music, leads the Penn State Concert Choir and the Chamber Singers in a rehearsal for the groups' final concert of the season, "Celebration of Diversity." Singers for the concert include students with international ties from right, Kenneth Chen, Andreas Uphoff, Ricardo Muñoz and Natalia Orlovskaya. The concert will be held at 8 p.m. Friday, April 19, in the School of Music Recital Hall on the University Park Campus.

Photo: Greg Grieco

Groups' final concert will celebrate musical diversity

A rich and diverse collection of songs from countries around the world will highlight the final concert of the season for both the Penn State Concert Choir and the Chamber Singers in a "Celebration of Diversity."

Drawing on the experience of its racially and ethnically mixed membership, which includes graduate and undergraduate students from Germany, Taiwan, Russia and other far reaches, the concert will feature choral music from these countries as well as other regions. The concert is set for 8 p.m. Friday, April 19, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Led by D. Douglas Miller, professor in the School of Music, the groups include singers such as Diana Bressler and Natalia Orlovskaya, who both completed their undergraduate music study at the Music Conservatory of Moscow, Russia;

Peter Slade and Alexandra Bielewicz, who have studied in England; Andreas Uphoff of Schwedeneck, Germany; Fen-Fen Lin and Kenneth Chen, graduate students from Taiwan; and Ricardo Muñoz, a graduate student in meteorology, who has shared his experience as a member of the choir at the University of Santiago in his native Chile.

In addition to the "Celebration of Diversity" repertoire, the 64-voice Concert Choir will sing the song cycle "Images and Elegies," which was composed by Bruce Trinkle, professor of music, as part of the recent State College centennial concert. The 24-voice Chamber Singers will share some of the repertoire of the past season.

Tickets for the April 19 event are \$4 for adults; \$2 for students, and are available in Room 233 of the Music Building, or at the door the night of the concert.

Commission on Lesbian, Gay and Bisexual Equity seeks members

The Commission on Lesbian, Gay and Bisexual Equity, in the Office of the Vice Provost for Educational Equity, is actively seeking nominations for membership for the 1996-97 academic year.

The commission serves as an advisory group to the vice provost on matters affecting the climate for gay, lesbian and bisexual members of the Penn State community. Its purpose is to enhance a positive working and living environment for all members of the University community regardless of sexual orientation, but is especially concerned with policies and structures which negatively impact on lesbian, gay and bisexual people. The commis-

sion's membership includes representation from all employee classifications as well as graduate and undergraduate students. Members are appointed by the vice provost for educational equity to three-year terms.

The commission values diversity in its membership and is actively seeking nominations from culturally, racially and ethnically diverse populations.

Nomination forms may be obtained from the commission office, 313 Grange Building on the University Park Campus, or by calling (814) 863-8415.

Nominations must be returned to the commission office no later than April 19.

Shuttle

continued from page 1

moment of launch," he said. "Of course, I want to go on the mission, but every-one's role is important."

Dr. Pawelczyk explained that the role of the payload specialist isn't to conduct just one experiment for one or two investigators, but to ensure that every investigator gets the data that he or she needs from the mission.

"In the coming two years I'm going to have to retool and learn all that I can about the space shuttle and the science of each of these 31 investigators," he said.

Aware of the potential danger in a space flight and the recent publicity surrounding movies like "Apollo 13," Dr. Pawelczyk said he has no fears about his possible mission because he has seen NASA at work.

"A current astronaut said something to the effect that if we didn't take risks, we might as well live in a padded room our whole lives and that's essentially it," he said. "Sure there's a calculated risk in this mission, but there's a risk just driving to work in the morning, too. I've been extraordinarily impressed with NASA and with the personal responsibility that each person takes in the individual job they do to put a space shuttle into orbit. I have to rely on the strength of that organization."

"In the coming two years I'm going to have to retool and learn all that I can about the space shuttle and the science of each of these 31 investigators."

— James Pawelczyk
assistant professor

"As a faculty member in the Department of Exercise and Sport Science, Dr. Pawelczyk studies the role of the nervous system in regulating blood flow. NASA is especially interested in his research because many astronauts experience irregularities in blood pressure immediately after returning from a flight, and some crew members have reported bouts of dizziness and unsteadiness for several hours after returning to Earth.

"One simple test is to ask a person to stand motionless for a 10-minute period," Dr. Pawelczyk said. "About 70 percent of astronauts are unable to complete that test after flight, despite use of countermeasures to avoid this."

NASA encourages astronauts to ingest extra fluids and salt in the hours before re-entry to try to boost blood volume, and to wear special garments that limit the amount of blood that pools in the legs.

The Neurolab mission — STS-90 — is one of several shuttle flights dedicated to life sciences research. Results of the research may prove useful not only to astronauts but to older adults as well.

"Many of the changes we see in space flight are similar to those associated with the aging process," Dr. Pawelczyk said. "These include not only a loss in bone mass and less precise control of the cardiovascular system, but also problems with vestibular control, and on longer flights, loss of muscle mass and bone mineral."

"So it's very possible that some of what we learn on these missions will translate to problems that are often seen in the elderly."

Other studies on the mission will focus on how microgravity affects such

Who's been chosen?

NASA has selected the following people to train as payload specialists for the 16-day Neurolab mission, scheduled for launch on the Space Shuttle Columbia in early 1998.

■ **James A. Pawelczyk**, 35, received a doctor of philosophy degree in biology from the University of North Texas, Denton, Texas. He is an assistant professor of applied physiology at Penn State.

■ **Jay C. Buckley**, 39, earned a doctor of medicine degree from Cornell University Medical College, Ithaca, N.Y. He is a resident and instructor in medicine at the Dartmouth-Hitchcock Medical Center, Lebanon, N.H. Dr. Buckley was an alternate payload specialist for STS-58, the second Spacelab life sciences mission.

■ **Alexander W. Dunlap**, 35, received his doctor of veterinary medicine degree from the Louisiana State University School of Veterinary Medicine, Baton Rouge, La. He is scheduled to receive a doctor of medicine degree at the University of Tennessee College of Medicine, Memphis, Tenn., in May.

■ **Chiaki Mukai**, 43, an astronaut with the National Space Development Agency of Japan, earned a doctor of medicine degree and a doctor of philosophy degree from the Keio University School of Medicine, Tokyo, Japan. Dr. Mukai became the first Japanese woman to fly in space when she flew as a payload specialist on STS-65, the second International Microgravity Laboratory mission in 1994.

functions as sleep, the respiratory system, nervous system development, motor behavior and balance. Some experiments — like Dr. Pawelczyk's — will use the astronauts themselves as subjects, while others will involve fish, snails, mice, rats and crickets.

Dr. Pawelczyk is part of a team that includes Dr. C. Gunnar Blomqvist of the University of Texas Southwestern Medical Center at Dallas, as well as investigators from Vanderbilt University, the Medical College of Virginia and the German Aerospace Research Establishment.

Their Neurolab experiments will make use of a technique called microneurography, which involves inserting extremely small needles into the astronauts' nerves in order to record electronically the neural activity that is transmitted to blood vessels. Measurements will be taken before, during, and after the mission.

Dr. Pawelczyk, who conducts his research at Noll Physiological Research Center at University Park, spent three years on the faculty at UT-Southwestern before joining Penn State's Department of Exercise and Sport Science last August. NASA will contract with Penn State for two years of Pawelczyk's time while he and the other three payload specialists train for the March 1998 mission.

Penn State faculty have been involved in experiments on numerous shuttle missions, but Dr. Pawelczyk would be the first to actually fly on the shuttle. The list of shuttle astronauts and payload specialists also includes three Penn State graduates: **Guion Bluford**, **Robert Cenkner** and **Paul Weitz**.

Dr. Pawelczyk himself is a Penn State alumnus, having earned his master's degree in physiology from the University in 1985. He also has a Ph.D. in biology from the University of North Texas.

Contributing to this story were Tina M. Hay and Lisa M. Rosellini

EMS Alumni Fellow killed in fiery plane crash

A Penn State alumnus who was named a 1996 Alumni Fellow by the College of Earth and Mineral Sciences was among the victims of the plane crash in Croatia that killed U.S. Commerce Department Secretary Ron Brown and 33 others on April 3.

P. Stuart Tholan, a 1958 graduate of the College of Earth and Mineral Sciences, was an executive with Bechtel Group Inc., one of the world's top companies involved in major construction, engineering, energy and manufacturing projects across the globe. Mr. Tholan was president of the corporate division known as Bechtel Europe, Africa, Middle East, SW Asia, currently based in London. In this position, he oversaw many projects including the construction of North Sea oil platforms and the rebuilding of Kuwait's oil production facilities following the Gulf War (a \$2 bil-

lion project involving 16,000 workers from 37 nations). He was on the plane with Secretary Brown as part of a mission to the war-torn region of Bosnia-Herzegovina to discuss reconstruction projects in the area. The group of business executives and commerce staffers were aboard an Air Force T-34A, a military version of the Boeing 737, when it slammed into a mountain ridge just outside the airport and the town of Dubrovnik.

Called "one of the best friends of the College of Earth and Mineral Sciences ever had," Mr. Tholan, 59, was an active alumnus involved in the Obelisk Society—a top gift society of the college. In 1989, he and his wife, Marilyn, established the P. Stuart Tholan and Marilyn B. Tholan Endowed Scholarship in Earth and Mineral Sciences. The scholarship provides annual financial assistance

to outstanding students in various disciplines of the college.

In 1994, he received the Earth and Mineral Sciences Alumni Achievement Award and in September of this year, Mr. Tholan was to receive the Alumni Fellow Award, the most prestigious award given by the Penn State Alumni Association. As part of the award program, Mr. Tholan was also scheduled to present an address to graduate students.

Mr. Tholan graduated with a bachelor of science degree in petroleum and natural gas engineering. He had been with Bechtel for 33 years, 17 of them in Europe.

In addition, he was also a member of the Society of Petroleum Engineers and the American Institute of Chemical Engineers.

Awards

Astronomy professor awarded Tinsley Prize for his research

The American Astronomical Society has selected **Alexander Wolszczan**, professor of astronomy and astrophysics, as the recipient of its Beatrice M. Tinsley Prize.

The prize recognizes an outstanding research contribution of exceptionally creative or innovative character and which has played a seminal role in furthering the understanding of the universe.

According to the society, Dr. Wolszczan was selected for his "creative



Alexander Wolszczan

and innovative analysis of binary and relativistic pulsars culminating in the discovery of a system of planets outside our solar system."

In 1992, Dr. Wolszczan became the first person to discover planets outside our solar system when he used the 1000-foot Arecibo radio telescope to detect three planets orbiting a rapidly spinning neutron star. He currently is one of the leaders in the effort to discover extra-solar planets.

Indian Science Congress lauds statistics professor

Calyampudi R. Rao, professor of statistics, holder of the Eberly Family Chair in statistics and director of the Center for Multivariate Analysis, has been awarded the P. C. Mahalanobis Birth Centenary Award presented by the Indian Science Congress Association. Dr. Rao was presented with a gold medal for his distinguished and outstanding contributions to the advancement of science.



Calyampudi R. Rao

Dr. Rao holds five additional medals, including: the Calcutta University Gold Medal, the Guy Medal in Silver of the Royal Statistical Society in the United Kingdom, the Meghnad Saha Medal of the Indian National Science Academy, the Jagdish Chandra Bose Gold Medal of the Bose Institute in Calcutta and the S.S. Wilks Memorial Medal of the American Statistical Association.

Vice president emeritus recipient of literature award

M. Lee Ucraft, vice president emeritus for student affairs and research associate at the Center for the Study of Higher Education, is this year's recipient of the Outstanding Contribution to Literature or Research Award from the National Association of Student Personnel Administrators (NASPA).

The award is given annually to someone whose literature or research has had a national impact on higher education and widespread practical application for student affairs.

Known internationally for his work, Dr. Ucraft has been contributing to the college student development literature for more than 25 years. He is currently completing his term as an associate edi-

tor of *New Directions for Student Services*, a post he has held with Jossey-Bass Publisher since 1984.

In addition, he has published five books, and a number of monographs, chapters in selected monographs, and refereed articles. He is the co-author of a forthcoming book on assessment in student affairs.

Dr. Ucraft has been affiliated with Penn State for almost 30 years. He joined Penn State in 1969 as director of the Human Relations Training Program in which he was responsible for a human relations training program for undergraduate students. Since then, he has served as director of student activities, dean of student affairs, director of residential life programs and director of the Total Alcohol Awareness Program.

Alumni to be honored for their achievements

The College of Arts and Architecture/Performing Arts Alumni Constituent Society will honor seven Alumni Achievement Award winners at its April 12 Awards Convocation. This achievement award

recognizes alumni who have distinguished themselves in their careers. This year's honorees include architect **Stanley M. Cole**; landscape architect **Roger P. Fickes**; art historian **Cathie Cook Kelly**; actor **Ross W. "Rob" Lehman**; scenic designer **Duke Durfee**; music educator **Richard Gipson**; and graphic designer **Charles L. "Chip" Kidd**.

■ Registered architect **Stanley M. Cole** has more than 42 years of architecture and management experience and is currently a principal with the Philadelphia firm of Ewing Cole Cherry Brott. He graduated in 1948.

■ **Roger P. Fickes** is the director of the Bureau of State Parks in Pennsylvania, the third largest park system in the United States. He is a 1970 graduate with a bachelor of science in landscape architecture.

■ **Cathie Cook Kelly**, who earned her Ph.D. in art history in 1980, is an associate professor of art at the University of Nevada at Las Vegas. Her research is considered to be at the forefront of Italian 18th-century scholarship.

■ Winner of the Helen Hayes Award for his lead role in *The Hot Mikado*, actor **Ross W. "Rob" Lehman** graduated in 1978 with a

bachelor of arts in theatre. Marking his return to the United States was the role of Trinculo in *The Tempest*. His off-Broadway roles have included Billy in *Wings* and Bergetto in *'Tis a Pity She's a Whore*.

■ **Duke Durfee** officially earned his master of fine arts in scenic design in 1992. A top associate designer on the New York scene, his Broadway shows include the Tony Award-winning *An Inspector Calls* and *Cyano the Musical*, *Metamorphosis*, *The Threepenny Opera*, *Dancing at Lughnasa* and *Shotgun*. He is the founder and president of DMD Group, a creative service, design and management company for corporate and entertainment industries.

■ **Richard C. Gipson**, director of the School of Music at the University of Oklahoma, was awarded a doctorate of education in music education in 1978. Since then he has made numerous contributions to music and higher education as a musician, teacher, conductor, composer, arranger, clinician and administrator. An accomplished percussionist and skilled arranger, he is the principal timpanist with the Oklahoma City Philharmonic.

■ **Charles L. "Chip" Kidd** earned his bachelor of arts in visual arts in 1986, and went to work for Alfred A. Knopf at Advance Publications. His dinosaur drawing from the cover of Michael Crichton's *Jurassic Park*, and later the theme park gates from the Spielberg movie, have become embedded in pop culture.

Arts and Architecture cites outstanding faculty members

The College of Arts and Architecture honored three members of its faculty with the 1996 Faculty Award for Outstanding Teaching. They are: **Paul Bolin**, assistant professor of art education; **Timothy Johnson**, assistant professor of landscape architecture; and **Michael Lucas**, instructor of visual arts at the Penn State Altoona Campus.

Dr. Bolin's art education colleagues consider him to be a master teacher in the art of teaching and many of his students agree with that assessment. One student wrote, "The best word I can use to describe Dr. Bolin is multidimensional. He sets a superb example as a totally engaged educator, researcher and mentor."

A student called Timothy Johnson

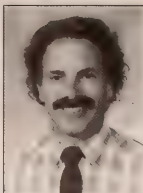
"one of the finest professors in the Penn State system." Another cited his dedication to the improvement of the department's computer facilities as having given graduates a "definite advantage in the profession." A member of the landscape architecture faculty since 1983, his colleagues credit him with masterminding and implementing the use of technology in the classroom for design and representation.

According to one colleague, Michael Lucas "unselfishly dedicates himself to impart the highest level of instruction to his students, and he has helped to establish the Altoona Campus as the strongest School of Visual Arts program in the Commonwealth Educational System."

■ Alumni Fellows M.D. who made DNA breakthrough selected by College of Medicine

Dr. Richard A. Spritz has been selected as the 1996 Alumni Fellow in the College of Medicine. The Alumni Fellow Award is the most prestigious award given by the Penn State Alumni Association. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.

Dr. Spritz received his undergraduate degree in zoology with high distinction from the University of Wisconsin-Madison in 1972, and his M.D. degree from Penn State's College of Medicine in 1976. He completed his pedi-



Richard A. Spritz

atrics residency at the Children's Hospital of Philadelphia in 1978, and was a Fellow in the Department of Human Genetics at the Yale University School of Medicine from 1978-1980. In January 1991, he became assistant professor in the departments of Medical Genetics and Pediatrics at the University of Wisconsin-Madison, was promoted to associate professor in 1986 and professor in 1991.

At Yale, Dr. Spritz was involved in the first cloning and DNA sequence analysis of human genes. As a faculty member at Wisconsin, Dr. Spritz has continued his investigations into the molecular basis of human genetic diseases.

Dr. Spritz has published more than 105 scientific and medical articles and has received a number of awards, including the First Annual Research Award from the Society for Pediatric Dermatology.

He will be visiting the College of Medicine on Friday, Sept. 27, and will share his experiences with faculty, staff and students.

Home nursing agency CEO named by Health and Human Development

Sylvia Schraff, president and CEO of the Home Nursing Agency, Altoona, has been chosen as an Alumni Fellow of the College of Health and Human Development.

Ms. Schraff, who holds both a bachelor's and a master's degree in nursing from Penn State, has been in charge of the Home Nursing Agency since 1971. Under her direction, HNA has grown to become one of the largest and most diversified home health organizations in the country, employing nearly 1,000 and serving 17,000 people each year.



Sylvia Schraff

HNA has 25 locations in 10 counties and has developed a number of model programs, including the nation's first hospice program.

Ms. Schraff has served on the board of directors for the National League for Nursing and has been a member of the Congress of Nursing Practice for the American Nurses' Association, among other national-level responsibilities. She is a member of the board of the Visiting Nurse Association of America, past president of the Visiting Nurse Association of Pennsylvania and vice president of the Pennsylvania Association of Home Health Agencies.

She has been a member of the advisory board for the Altoona Campus since 1988 and has served on the Penn State Alumni Council. In 1992, she received an Alumni Recognition Award from the College of Health and Human Development. More recently the HNA and the School of Nursing formed a partnership to establish rural nursing centers in Mount Union and in Port Matilda.

Center plans activities for Earth Day '96

Activities planned by the Penn State Center for Sustainability on April 20 include the construction of a straw bale meeting house on a 25-acre site across from Park Hills Avenue on Circleville Road in Ferguson Township, just outside State College. In the spirit of an Amish barn raising, the public is invited to participate.

Beginning at 9 a.m., design and construction workshops will supplement the hands-on experience of laying walls made from 18-inch thick bales of straw. The straw bale project is a collaborative effort among students and faculty from various colleges and centers at Penn State, who have worked over the past nine months creating an 18-item list of the "criteria for sustainability." The group set out to discover a way to live closer to the land in a four-season climate.

"This straw bale house will be the first of its kind in Pennsylvania," Barbara Siebert, director of the Center for Sustainability and the project, said. "We hope it will be a model for non-toxic, resource-conserving ... buildings which harmonize with the landscape."

Other activities of the day include: a 1 p.m. herb walk led by herbalist James Duke; at 5 p.m., an Earth Mass will be held in celebration of nature. Music, singing, poetry and dance will accompany a sharing of home-made breads.

For more information, contact Barbara Siebert at (814) 865-4018. Regular meetings for the Center for Sustainability are held on Wednesdays from 4 to 6 p.m. at the Shreyer Institute for Innovation in Learning in Rider Building II.

Promotions

Staff

Dale E. Punshon, classification/employment specialist III in Office of Human Resources.

Elizabeth K. Raimo, clinical psychiatric specialist at The Hershey Medical Center.

Joyce A. Reed, staff assistant VI in The Eberly College of Science.

Rodolfo Reyes, technician analyst I at The Hershey Medical Center.

Roxanne M. Rishel, engineering aide in Applied Research Lab.

Kimberly A. Robertson, LPN/MEDS at The Hershey Medical Center.

Susan M. Rutan, assistant director, Human Resources in Office of Physical Plant.

Stephen M. Schuch, clinical psychiatric specialist at The Hershey Medical Center.

Shelby L. Sharp, staff assistant VIII in Applied Research Lab.

Holly A. Shearer, coordinator, Epilepsy Program, at The Hershey Medical Center.

Jane M. Smith, staff assistant VI at Penn State Great Valley.

Sheri L. Smith, technician, Research, at The Hershey Medical Center.

Trudy A. Smith, staff assistant VI at The Hershey Medical Center.

Tammy A. Snook, staff assistant VI in Research and Graduate School.

Ann M. Southard, program assistant in College of Agricultural Sciences.

Carol A. Spangler, staff assistant IX in College of Engineering.

Andrea K. Stoutzenberger, LPN/MEDS at The Hershey Medical Center.

William R. Toole, clinical psychiatric specialist at The Hershey Medical Center.

Patrick J. Ulmen, clinical psychiatric specialist at The Hershey Medical Center.

Technical Service

Daniel W. Lehnner, electrician, Maintenance, in Office of Physical Plant.

Allen L. Lowery, livestock caretaker in College of Agricultural Sciences.

Lester L. May, maintenance mechanic at The Hershey Medical Center.

Philip D. Meyer, lead facilities system technician in Applied Research Lab.

Edward P. Miller, maintenance worker utility in Office of Physical Plant.

Carol A. Mondock, family housing project worker in Bryce Jordan Center.

Suzanne Rieger, animal caretaker C at The Hershey Medical Center.

Michael J. Roth, group leader landscape/tree surgeon at Penn State Harrisburg.

Faculty/Staff Alerts

Paper prices decrease

General Stores, a division of Procurement and Materials Management for the Office of Business Services, has received substantial price discounts for white, cut-sheet copier paper.

These price reductions result from an increase in supply throughout the paper market.

For additional information regarding paper prices, please call General Stores at (814) 863-0317. For information on other paper pricing unrelated to General Stores, please contact Kevin Stahl, buyer, Purchasing Services, at (814) 865-2567.

LECTURES

Marker series looks at searches in space

Bohdan Paczynski, the Lyman Spitzer Jr. Professor of Astrophysics at Princeton University, will present the 1996 Russell Marker Lectures in Astronomy and Astrophysics from April 15 to 17 on the University Park Campus.

The three-lecture series, titled "Gravitational Microlensing," is sponsored by the Eberly College of Science and is free to the public.

The lectures include: "Gravitational Microlensing and the Search for Dark Matter" at 8 p.m. Monday, April 15, in 101 Classroom Building; "The Current Status of Microlensing Searches" at 4 p.m. Tuesday, April 16, in 123 Chambers Building; and "The Future of Searches and Serendipity Projects" at 4 p.m. Wednesday, April 17, in 123 Chambers Building.

Dr. Paczynski is a theorist whose ideas on gravitational lenses, gamma-



Bohdan Paczynski

ray burst sources, neutron stars, accretion disks and solar neutrinos have spawned intensive, worldwide programs of theoretical and observational research and the construction of two observatories designed to test his theories.

He has received many awards throughout his career and is an elected member of the Polish Academy of Sciences, a foreign member

of the U.S. National Academy of Sciences, and the Deutsche Akademie der Naturforscher.

Dr. Paczynski earned his master's and doctoral degrees in astronomy at Warsaw University in 1962 and 1964, respectively. He received a doctorate degree in astronomy at Warsaw University in 1967.

Dr. Paczynski joined the faculty at Princeton University in 1982 and was named the Lyman Spitzer Jr. Professor of Astrophysics in 1989.

Lecturer will tell his audience "Why Science Matters"

Paul Hoffman, president and editor-in-chief of *Discover* magazine, will present the 1996 A. Dixon and Betty F. Johnson Memorial Lecture in Scientific Communication on Wednesday, April 17. The free public lecture, titled "Why Science Matters," will be held at 4 p.m. in 104 Keller Building.

He has been editor-in-chief of *Discover* since 1987.

Mr. Hoffman moonlights as the regular essayist and science correspondent for "The News Hour with Jim Lehrer." He is host of the direct-to-video series "Discovering the Great Minds of Science," to be broadcast on Public Broadcasting System next summer, and has been a special correspondent on the television programs "Good Morning America,"

"CBS This Morning" and "Inside Space."

He is the author of 10 books, ranging from the serious *Archimedes' Revenge: The Joys and Perils of Mathematics* to the humorous *How Many Zen Buddhists Does It Take to Screw in a Light Bulb?*

Mr. Hoffman graduated summa cum laude from Harvard College with a degree in the history of science. He began his science writing career in 1978 as a senior editor at *Scientific American*. From there he went to *Science Digest*, where he became executive editor.

His article in *The Atlantic*, titled "The Man Who Loves Only Numbers," won the 1988 National Magazine Award for feature writing, the highest award in magazine journalism.

Slide show, lecture planned at Berks

Gerry Ellis, one of the premiere wildlife and natural history photographers in the world, will present a 75-minute slide show lecture at 1 p.m. Monday, April 22, in the Perkins Student Center Theatre on the Penn State Berks Campus.

Titled "Vanishing Cultures," the

lecture will feature his work and tales from his extensive journeys. Mr. Ellis, who has garnered numerous awards for his work, regularly has his photos published in *National Geographic*, *BBC Wildlife*, *Smithsonian* and *Terre Sauvage*.

The lecture, part of the Berks Campus lecture series, is free to the public.

Lecture links WISE to women's studies

"The Relationship between Women's Studies and Women in the Sciences and Engineering Programs" will be discussed by Sue Rosser, director, Center for Women's Studies and Gender Research at the University of Florida-Gainesville, during the WISE Institute Lecture at 2:30 p.m. April 18 in the HUB Assembly Room on the University Park Campus.



Sue Rosser

Dr. Rosser is the author of *Female Friendly Science: Applying Women's Studies Methods and Theories to Attract Students, Teaching Science and Health from a Feminist Perspective: A Practical Guide*, *Feminism in the Science and Health Care Professions: Overcoming Resistance*, *Feminism and Biology: A Dynamic Interaction and Women's Health: Missing From U.S. Medicine*.

In 1995, she was named senior program officer for women's programs at

the National Science Foundation. Dr. Rosser received her B.A. in French and biology in 1969, her M.S. in zoology in 1971 and her Ph.D. in zoology in 1973 from the University of Wisconsin-Madison. She became an assistant professor at Mary Baldwin College in 1976 and moved to the University of South Carolina — Columbia in 1986 as associate professor of family/preventive medicine and director of women's studies. She served one year with NSF before moving to the University of Florida in July. In 1993, she received the American Library Association's Choice Outstanding Academic Book Award for "Feminism and Biology."

The lecture is sponsored by the WISE Institute, Women's Studies Program and the Equal Opportunity Planning Commission.

Conference will be a literary field day for all who just love a good mystery

"Landscapes of Murder: The Geography of the Genre," a conference for mystery enthusiasts, readers and writers, is planned for June 13-16 at University Park.

Featuring Kate Stine, editor-in-chief of *The Armchair Detective*, and a panel of writers, including Harlan Coben, Joan Hess and Dorothy Cannell, the three-day event focuses on the geography of crime and mystery fiction. George J. Demko, an Alumni Fellow and nationally renowned geographer, will lead the exploration of locale.

The conference will cover the latest in forensic research, examine the evolution of women, ethnics and gays in mystery, focus on sites of crime and explore the landscapes of the masters.

Mystery films will be shown on Friday and Saturday (June 13 and 14) evening. Lodging is available in residence halls or campus hotels.

For more information about the conference, sponsored by the Alumni Association and the College of Earth and Mineral Sciences, call Mary Jane Stout at (814) 865-5466 or (800) PSU-TODAY.

Mineral executive will speak on mining

One of the nation's leading minerals industry executives, Milton H. Ward, will visit University Park on Friday, April 19 to present the fifth annual G. Albert Shoemaker Lecture in Mineral Engineering.

He will speak at 4 p.m. on "Mining in the 21st Century: Who, How and Where?" in 112 Walker Building. Refreshments will be served at 3:30 p.m.

Dr. Ward, chairman, president and chief executive officer of Cyprus Amux Minerals Co., has a distinguished 40-year career in the worldwide minerals industry. In 1994, he received the Ankah Award of the Copper Club for his contributions to the

copper industry and efforts to promote copper use worldwide.

He is an elected member of the National Academy of Engineering and a director of the National Mining Hall of Fame and the Smithsonian's National Museum of Natural History. He holds a B.S. in mining engineering, M.S. in engineering, and an MBA, and was awarded an honorary doctor of engineering degree from the Colorado School of Mines.

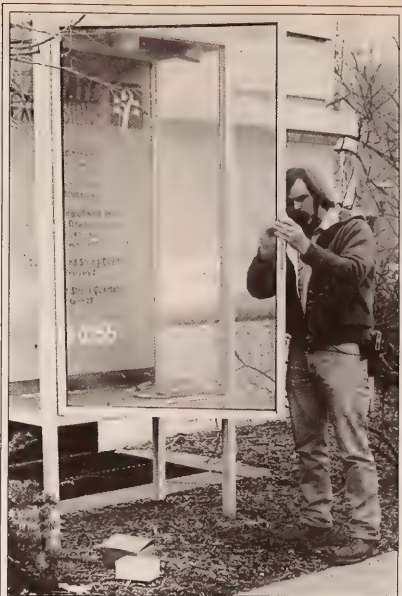
This lecture series was established in 1992 to honor the memory of G. Albert Shoemaker, a distinguished alumnus of Penn State, former Penn State trustee and president of the Board of Trustees from 1970 to 1972.

Maximize your creative potential

"Maximizing Your Creative Potential" a free workshop aimed at helping people enhance their creative potential in the workplace, will be held beginning at 8 a.m. Tuesday, April 23 at the Penn State Worthington Scranton Campus. The workshop is being offered as part of a trio of management development

programs designed to address the challenges confronting leaders today.

Through exercises, skill practices and discussion, participants will learn specific ways to improve their creative potential. There is no fee to participate, but registration is required. To register by telephone, call (800) 966-6613.



Spring repairs

Locksmith Kevin Potter replaces a rusty lock on the display case outside Schwab Auditorium on the University Park Campus. Winter weather has taken its toll on both landscaping and outdoor fixtures, and now that the weather is beginning to improve, the Office of Physical Plant is busy making repairs.

Photo: Kristie Guldner

News in Brief

Diabetes study

A study in the College of Health and Human Development needs women from 40-60 years of age with adult-onset diabetes. The purpose of the study is to learn how women decide which foods to purchase in the supermarket and to identify their opinions of the food label. Participants will participate in a brief interview and will be reimbursed. Results of the study will be used to develop programs on food shopping for families affected by diabetes.

If you would like to receive more information, please call (814) 863-2916. This study is under the direction of Cheryl Achterberg, associate professor of nutrition.

Career workshop

"Networking/Centre County Job Search," a career workshop offered by the Center for Adult Learner Services, will be held from noon to 1 p.m. Wednesday, April 17, in 329 Boucke Building. The program, to be led by Marcia Pomeroy, counselor, Career Development and Placement Services, will focus on an overview of resources and services and tips on how to locate employment.

If you are interested in attending or would like more information, call 863-3887.

Research subjects needed

Women are being recruited to participate in a study of age-related changes in reproductive hormones. Participants will be asked to provide daily first-morning urine samples. Any woman over the age of 18 is potentially eligible to participate. All participants will receive a small financial compensation and a copy of their hormone information.

If you are interested in participating in this study, please call (814) 863-0356. The principal investigator on this project is James Wood, professor of anthropology and senior scientist at the Population Research Institute.

Science writing discussed

Paul Hoffman, president and editor-in-chief of *Discover* magazine, will lead a lunchtime roundtable discussion hosted by the Penn State Chapter of the National Association of Science Writers at noon Wednesday, April 17, in room 504 ASI Building. He will talk about science writing.

NASW lunchtime programs are open to anyone interested in science communication.

For more information, contact Scott Turner by e-mail at stx11@psu.edu or by phone at (814) 865-9481.

HRDC course

The following course is being offered by the Human Resource Development Center. To register for a free course, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

Facilitation Skills For Leaders (LDR 023) Designed to help supervisors and managers whose units are making the transition to team-based organizations. Meets 9 a.m.-4 p.m. Tuesday, April 30, in 118 Agricultural Sciences & Industries Building. Cost: \$55.

To see a list and description of other courses available, check the HRDC course catalog or log-in to the Intercom Web site from the homepage of the Office of University Relations at URL <http://www.ur.psu.edu>.

Carpoolers

Carpool of four is seeking an additional rider to share ride from Phillipsburg. Hours are 8 a.m. to 5 p.m., Monday through Friday. Phone: 863-8520 or 863-2782 if interested.

Riders wanted for vanpool from Phillipsburg to University Park. Work hours are 8 a.m.-5 p.m. Monday through Friday. Call Tim at 865-6524 or 342-3827 after 6 p.m.

Clients gain a lot from PENNTAP

In 1995, clients of the Pennsylvania Technical Assistance Program reported \$10 million in economic benefits as a result of PENNTAP assistance. PENNTAP, a partnership between Penn State, the Pennsylvania Department of Commerce and the U.S. Economic Development Administration, has been serving Pennsylvania business and industry statewide since 1965.

As one of the nation's first technical assistance programs, PENNTAP provides free scientific and technological assistance and information to clients across the state by using the expertise provided by faculty and staff at the University. The program focuses on helping smaller businesses that normally do not have the in-house expertise or time to resolve specific technical questions or problems.

In order to determine its impact, PENNTAP sends a survey to each of its clients after assistance has been provided.

"The response rate in 1995 was 74 percent, with our clients reporting \$3.9 million in cost benefits, \$3.3 million in sales impact and \$2.8 million in capital investments as a result of PENNTAP assistance," Jack Gido, PENNTAP director, said. (See chart.)

Regarding the quality of the help provided, 97 percent client satisfaction was reported by respondents. Over the

About PENNTAP

In 1995, PENNTAP provided 836 cases of assistance, an increase of 23 percent over 1994 numbers. More than 80 percent of its clients were from businesses with fewer than 100 employees. During this time, the program achieved the following gains:

	1994 (\$ in millions)	1995 (\$ in millions)	Pct. Increase
Cost savings	\$2	\$3.9	95
Sales increases	\$2.6	\$3.3	27
Capital investments	\$1.3	\$2.8	115
Total economic benefits	\$5.9	\$10	69

course of the year, PENNTAP technical specialists made more than 600 visits to clients and 75 presentations regarding PENNTAP services, reaching 1,900 participants.



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Visit Intercom online by going to the University Relations home page at URL <http://www.ur.psu.edu> and clicking on the Intercom button.

The ARTS

AT PENN STATE

Humorous operas

A double billing of humorous operas is planned for this year's "Opera at Schwab," an annual presentation given by the Penn State Opera Theatre, at 8 p.m. Friday, April 12, and Saturday, April 13, in Schwab Auditorium on the University Park Campus. "Opera at Schwab" is directed by Susan Boardman, associate professor of music. John Ulrich is the accompanist. Both operas are sung in English.

Headling the performance is "Prima Donna," written by Australian-born composer Arthur Benjamin, librettist Cedric Cliffe. The second opera is "Sweet Betsy from Pike," a one-act "horse opera" inspired by the old American folk song of the same name.

There will be a \$4.50 admission charge at the door. Tickets are available in advance from the Eisenhower Auditorium Box Office. For ticket information, contact the Ticket Center, open 8:30 a.m. to 4:30 p.m., Monday through Saturday, at (814) 863-0255. Outside the local calling area, phone (800) ARTS-TIX.

Singing Lions annual spring show

The Singing Lions, Penn State's traveling show choir, will present its annual spring show, "Sing! Sing! Sing!," at 2 p.m. Sunday, April 14, in the Recital Hall of the College of Arts and Architecture School of Music Building on the University Park Campus.

The Singing Lions will feature several high energy numbers, including a blues medley, jazz medley and patriotic medley, as well as the Singing Lions' usual tribute to music from Broadway.

General admission is \$4; \$3 for students/senior citizens, and will be available the day of the show at the School of Music Recital Hall Box Office.

Symphonic Band performance April 14

Ned Deihl will conduct his final concert with the Penn State Symphonic Band at 3 p.m. Sunday, April 14, in Eisenhower Auditorium on the University Park Campus. After 21 years conducting the Symphonic Band and 34 years with the Blue Band, Dr. Deihl, a professor of music education in the College of Arts and Architecture School of Music, plans to retire from the University.

The afternoon program will include a wide variety of music as well as guest soloist D. Ray McClellan, clarinet soloist with the United States Marine Band. Dr. McClellan has three degrees from the Juilliard School of Music, including a doctor of musical arts in performance. The concert is free to the public.

Women's chorale to give spring concert

The Penn State University Women's Chorale will present its spring concert at 5 p.m. Sunday, April 14, in the Faith United Church of Christ at 300 E. College Ave., State College.

The 10-member chamber group "The B-Naturals" will also perform. The concert is free to the public.

"Tangled Roots"

California artist Betye Saar will design a site-specific installation titled "Tangled Roots," which will be on view in the Palmer Museum from Tuesday, April 16, through Sunday, July 21, on the University Park Campus.

Ms. Saar, an artist who lives in Los Angeles, began her career in the 1960s by producing collages and assemblages that often reflected political and social issues. During the 1970s, she began to explore the formal possibilities inherent in her assemblages, first through floor-standing sculpture and multi-media constructions and then with the creation of site installations. Both metaphysical and ethnic references, particularly to the cultures of Africa, Asia, Egypt, Mexico and Oceania, are apparent in much of her work.

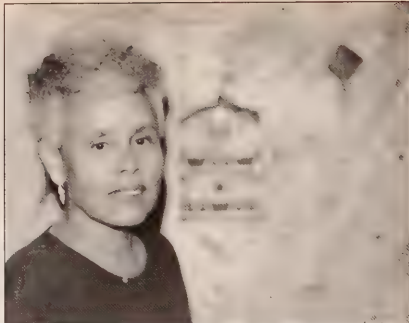
Ms. Saar will present a lecture at 3:30 p.m. on April 16 in the Palmer Lipson Auditorium discussing "Tangled Roots" within the context of her work.

In conjunction with the installation of "Tangled Roots" at the Palmer, the exhibition "Betye Saar: Personal Icons," containing a selection of the artist's more recent assemblages, will be on display in the Paul Robeson Cultural Center on the University Park Campus through Sunday, May 19.

For more information, contact the Palmer Museum of Art at (814) 865-7872. All exhibitions and lectures are free to the public.

Meridian Arts Ensemble

Music at Noon: The Logan Wintergarden Series will conclude its 1995-96 season with a performance by the Meridian Arts Ensemble, a chamber group, at noon Tuesday, April 16. The



Palmer exhibit

Artist Betye Saar's site-specific installation "Tangled Roots" will be on display at the Palmer Museum on the University Park Campus from Tuesday, April 16, through Sunday, July 21. For information, call the Palmer Museum at (814) 865-7672. The exhibition and all associated lectures are free to the public.

free performance will be held in the Wintergarden Atrium of the Reed Union Building at Penn State Erie, The Behrend College.

Audiences are encouraged to bring lunch. For more information, contact Penn State Behrend at (814) 898-6000.

Centre Dimensions ends season

Centre Dimensions, Penn State's premiere big band, will present its final concert of the year at 8 p.m. Tuesday, April 16, in the School of Music Recital Hall on the University Park Campus.

The concert of big band jazz will include music ranging from the classic big band period to several world premiere performances.

The concert also will feature music composed or arranged specifically for Centre Dimensions by Penn State musicians. Robert Selander, professor of biology, and Dan Yoder, director of the group, have both written arrangements for the band.

There will be a \$3 admission charge at the door.

Mont Alto plans events

Several free events are planned for the coming month at the Penn State Mont Alto Campus. They include:

■ A performance at 8 p.m. Tuesday, April 16, by the All-American Diehlband Band. This is part of the Campus Cultural Events Series.

■ Local artist Becky Dietrich will display a retrospective of her work, titled "A Mixed Bag," at the library on the Penn State Mont Alto Campus through May 3.

For more information, call (717) 749-6112.

Glass exhibit at Berks

"Glass: Some Like it Hot," a glass exhibit by Tom Farbanish, is on display in the Freyberger Gallery on the

Penn State Berks Campus until April 17. Painted steel and colored glass are harmonized to create free-formed and abstracted sculptures.

Grammy nominee to appear at Behrend

Described as the Bob Dylan of the 90s, Grammy nominee Greg Brown will appear as part of the Creative Writer Speaker Series at Penn State Erie, The Behrend College at 7 p.m. Wednesday, April 17, in the Reed Lecture Hall. The performance is free.

Brown has recorded 11 albums, reaching top 10 play lists around the country. In 1993, he earned his first Grammy nomination with the release "Friend of Mine" with Bill Morrissey.

For more information about the series, call (814) 898-6108.

Symphonic Wind Ensemble concert

The Penn State Symphonic Wind Ensemble will present its final concert of the season at 8 p.m. Wednesday, April 17, in the School of Music Recital Hall on the University Park Campus.

The free concert will feature French horn soloist Andrea Henry, the winner of the 1996 Phi Mu Alpha Wind/Percussion Concerto Competition. A junior majoring in horn performance, she is a student of Lisa Bontrager in the School of Music.

The performance will include a variety of musical selections.

The Symphonic Wind Ensemble is a select group of wind and percussion students in the School of Music. Ensemble members are studio students of the School of Music and percussion faculty. Conductor of the Symphonic Wind Ensemble is Richard Bundy, associate professor of music.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, April 12

- Gallery Talk, 2 p.m., Christoffers Lobby, Palmer Museum. Glenn Willumsen on "Sebastião Salgado and Workers'."
- Asian American Student Organization, 7 p.m., HUB Ballroom. Fashion show and a night of cultural performances.
- Ebony and Ivory Week event, 8 p.m., HUB. Lollapalooza, performances from Jazz Club, Caribbean Student Association, Dancers and Angel Step Team.
- School of Music, 8 p.m., Schwab Auditorium. "Opera Theatre." For information, call (814) 863-0255. Also April 13.

Saturday, April 13

- Office for Minority Faculty Development, 9 a.m., 114 Kern. "Promotion and Tenure," development workshop. For reservations, call (814) 863-1663.
- Shaver's Creek, 9:30 a.m. Reconnecting with Nature. Call (814) 863-2000.
- Penn State International Dance Ensemble, 2 p.m., White Bldg. Dance Theatre. From "teled" dancing to the 80's American hip-hop style and from European music to American country western. Also at 7 p.m. For tickets, call (814) 863-3467.
- Asian Awareness Week event, 7 p.m., 101 Classroom Bldg. "hereandnow," an Asian American acting troupe to present a show on Asian American issues (racism and themes of self discovery).
- Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Ensemble Modern. For tickets, call (814) 863-0255.
- Bryce Jordan Center event: Eastern National Wrestling Championships. Also April 14. Tickets on sale day of event.

Sunday, April 14

- Shaver's Creek, 2 p.m. Spring Awakening. Call (814) 863-2000.
- School of Music, 2 p.m., Recital Hall. Singing Lions. For tickets, call (814) 865-0431.
- University Concert Committee, 3 p.m., HUB Fishbowl. "Dixie Hummingbirds," black gospel quartet tradition of four-part harmony.
- School of Music, 3 p.m., Eisenhower Auditorium. Penn State Symphonic Band.
- School of Music, 5 p.m., Faith Union Church. Penn State Women's Chorale.

Monday, April 15

- Professional Women at Penn State (brown-bag lunch), 11:50 a.m., 110 Henderson Bldg. Linda Pierce on "Balancing Work and Life."
- Comparative Literature, 12:15 p.m., 101 Kern. John Fyler, speaker.
- Bryce Jordan Center event: Bush with Goo Goo Dolls and No Doubt. For tickets, call (814) 865-5555.

Tuesday, April 16

- Art History, 3:30 p.m., Palmer Lipson Auditorium. Betsy Saar on "Palmer Museum Installation."
- School of Music, 8 p.m., Recital Hall. Centre Dimensions. For tickets, call (814) 865-0431.

Wednesday, April 17

- German Day, opening 9 a.m., HUB Ballroom. Theme, "We Are Foreigners, Almost Everywhere." For event information, call (814) 863-7485.
- National Association of Science Writers, noon, 504 ASI Bldg. Paul Hoffman to lead a roundtable discussion about science writing.



Flute master

Guest artist, composer and flutist Robert Dick will hold a residency April 18 and 19 in the School of Music on the University Park Campus.

- Center for Adult Learner Services, noon, 329 Boucke Bldg. "Networking/Centre County Job Search," career workshop led by Marcia Pomeroy, counselor.
- Bryce Jordan Center event: Steve Miller Band, 7:30 p.m. For tickets, call (814) 865-5555.
- School of Music, 8 p.m., Recital Hall. Penn State Symphonic Wind Ensemble.

Thursday, April 18

- Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Hi-Lo's from the Penn State Glee Club.
- School of Music, 7 p.m., 110 Music Bldg. Robert Dick hosts flute masterclass.
- "Distinctive Styles" Concert, 8 p.m., HUB Fishbowl. "The Pan Masters' Steel Orchestra." Includes calypso, soca, folk, samba, reggae, classical and music of North America.
- University Resident Theatre Company, 8 p.m., Pavilion Theatre. Studio production of "Playland." Also, April 19 and at 2 p.m. April 20.

Friday, April 19

- School of Music, 10 a.m., 15 Music Bldg. Robert Dick hosts composers' feast. A solo flute performance and commentary at 2:30 p.m. in Recital Hall.
- Gallery Talk, 2:30 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "An Installation by Betsy Saar."
- Bryce Jordan Center event: Arena Football, Albany Firebirds vs. Connecticut Coyotes, 7:30 p.m. For tickets, call (814) 865-5555.

- "Ice Rhythms," 7:30 p.m., Ice Pavilion. Also, April 20.

- School of Music, 8 p.m., Recital Hall. "Celebration of Diversity" with the Penn State Center Choir and the Chambers Singers. For tickets, call (814) 865-0432.

Saturday, April 20

- Earth Day.
- Shaver's Creek, 11 a.m.-4 p.m., Earth Day Celebration. Also April 21. Call (814) 863-2000.
- Gallery Talk, 2 p.m., Christoffers Lobby, Palmer Museum. Kay Picart on "Asian Art at the Palmer Museum."
- Palmer Museum of Art Annual Gala, 6:30 p.m., Penn State Scanticon. "The Roaring Twenties." For reservations, call (814) 865-7872.
- Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. David Rousseau/REALITY "Whispers of Angels." For tickets, call (814) 863-0255.
- School of Music, 8 p.m., Schwab Auditorium. Penn State Glee Club and Oriana Singers Concert. For tickets, call (814) 863-0255.

Sunday, April 21

- School of Music, 4 p.m., Recital Hall. Penn State University Choir. For tickets, call (814) 865-0431.

SEMINARS

- Friday, April 12
- Mueller Memorial Lecture, 11 a.m., 339 Davey Lab. Herbert Walther on "The Quantum Optics of a Single Atom."

- Philosophy, 4 p.m., 218 Willard. Dimitri Girev on "Beyond Modernity But Not Postmodernity (The Human Sciences at the End of Modernity)."

Monday, April 15

- Ecology, 12:20 p.m., 108 Tyson. Heather Adley on "Survival of VAM Fungal Propagules in Frozen Soil Over Winter."
- Center for Gravitational Physics and Geometry, 3:30 p.m., 109 Boucke Bldg. Erik Martinez on "Fundamental Thermodynamical Equation of a Self-Gravitating System."
- Physics, 3:30 p.m., 339 Davey Lab. Steve Morris on "Electroconvection Patterns in a Suspended Smectic Films."
- Russell Marker Lecture in Astronomy and Astrophysics, 8 p.m., 101 Classroom Bldg. Bohdan Paczynski on "Gravitational Microlensing and the Search for Dark Matter."

Tuesday, April 16

- Veterinary Science/Food Science, 10:15 a.m., 118 ASI. Christine Bruhn on "Consumer Food Safety Concerns."
- Geosciences, 3:30 p.m., 112 Walker Bldg. Dave DesMarais on "Environments for Early Microbial Evolution."
- Biology, 4 p.m., 8 Mueller Lab. Christopher Uhl on "A Multidisciplinary Approach to Addressing Land-Use Problems in the Brazilian Amazon."
- Food Science, 4 p.m., 117 Bortland Lab. Junghee Suh Kim on "Comparison of Various Enrichment Broths and Reducing Agents for Detection of Heat-Injured Listeria monocytogenes."

See "Calendar" on page 10

Arts

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Bach's Lunch

The Hi-Lo's, a small ensemble from the Penn State Glee Club, will perform at the Bach's Lunch concert series at 12:10 p.m. Thursday, April 18, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute free concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The Hi-Lo's will sing folksongs, spirituals and selections from "Mountain Laurels," which was written by Bruce Trinkle, director of the Penn State Glee Club and associate professor of music, to commemorate the centennial of State College.

The Hi-Lo's will be featured with the Glee Club in the annual Blue and White Concert on April 20 in Schwab Auditorium.

The audience may take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided.

Composer/tutist to hold residency

Guest artist, composer/tutist Robert Dick will hold a residency Thursday, April 18, and Friday, April 19, in the School of Music on the University Park Campus.

Mr. Dick will present a flute masterclass from 7 to 9:30 p.m. April 18 in Room 110 of the Music Building; he will hold a composers' forum from 10 to 11 a.m. April 19 in Music Tech Room 15 of the Music Building; and he will conclude his residency with a solo flute performance and commentary from 2:30 to 3:30 p.m. April 19 in the School of Music Recital Hall.

Mr. Dick is one of only two Americans ever to be awarded both Composers' Fellowships and a Solo Recitalist Grant by the National Endowment for the Arts. Among his other fellowships and awards are a Guggenheim Foundation Fellowship for composition and commissions from the Jerome Foundation, Fromm Foundation and Mary Flagler Cary Trust.

All events are free to the public.

"Playland"

The University Resident Theatre Company will present a studio production of "Playland," a drama by South African playwright Athol Fugard, at 8 p.m. Thursday, April 18, and Friday, April 19; and at 2 p.m. Saturday, April 20, in the Pavilion Theatre on the University Park Campus.

"Playland," is Fugard's powerful allegory of reconciliation and healing in war-torn South Africa. "Playland's" acting debut features third-year graduate students G. Valmont Thomas and Tyler Stillwell. The production, directed by Robert E. Leonard, is an independent project sponsored by the Department of Theatre Arts.

The play is free to the public.

"Whispers of Angels"

David Rousseve and his avant-garde theatre/dance company REALITY will present "Whispers of Angels," a multi-media work co-commissioned by the Center for the Performing Arts, at 8 p.m. Saturday, April 20, in Eisenhower Auditorium on the University Park Campus.

Choreographer/director Rousseve offers a collage of dance, theatre, comedy, gospel and original recorded music. Gospel singer B.J. Crosby and eight members of REALITY will perform the work.

A piece noted for its honest portrayal of the suffering and hope of the human condition, "Whispers" tells the story of an African American gay man dying of AIDS and longing for reconciliation with his abusive father.

A "Greek chorus" of 30 local participants, who will be auditioned this month, will perform in the work.

Through Saturday, April 20, David Rousseve/REALITY is involved in a two-week residency at Penn State. The residency will offer students and community members a chance to meet the artists and participate in activities. All residency events are free to the public.

The remaining residency schedule includes:

- A classroom visit, beginning modern dance, at 2:30 p.m., Friday, April 12, in 108 White Building.

- Film lecture at 7:30 p.m. Monday, April 15, in 301 HUB.

- Open rehearsal at 7 p.m. Friday, April 19, in Eisenhower Auditorium.

■ Artists-audience discussion, following the 8 p.m. Saturday, April 20 performance in Eisenhower Auditorium.

Tickets for the performance are \$20 for non-students; \$16 for students. Penn State students may purchase a ticket for \$10 the week of the performance. For ticket information, contact the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800)ARTS-TIX.

Outdoor writers exhibit at Hazleton

Prize-winning photos from the 1995-96 Outdoor Writers Association of America photo exhibit will be on display at the Penn State Hazleton Campus Library through April 28.

Black and white and color photographs showcase the outdoor world in a display that consists of five categories: scenic, flora, fauna, action and people.

Student art in Pattee

Spectrum, an exhibit of student art work, will be shown in Pattee Library's Lending Service and West Lobby galleries through April 30.

The name of this exhibit reflects the variety of student art work collected, showcasing several media including painting, photography and mixed media. The art in the show represents some of the best work from the disciplines of visual arts and architecture.



Exhibit continues

"Workers: An Archaeology of the Industrial Age: Photographs of Sebastião Salgado" are on display at the Palmer Museum of Art on the University Park Campus through June 9.

Calendar

continued from page 9

Russell Marker Lecture in Astronomy and Astrophysics, 4 p.m., 123 Chambers Bldg. Bohdan Paczynski on "The Current Status of Microlensing Searches."

Wednesday, April 17

Continuing and Distance Education, 11:45 a.m. 502 Keller. David L. Passmore on "Continuing Education's Role in the Economic Development of the Commonwealth."

Gerontology, 12:15 a.m., 101 H&HD East. Amy Horowitz on "Age-Related Vision Loss: Implications for Functional and Psychosocial Well-Being."

Liberal Arts Dean's Lecture Series, 3 p.m., Nittany Lion Inn. John Salis on "A Time of Imagination."

Johnson Memorial Lecture in Scientific Communication, 4 p.m., 104 Keller. Paul Hoffman on "Why Science Matters."

Russell Marker Lecture in Astronomy and Astrophysics, 4 p.m., 123 Chambers Bldg. Bohdan Paczynski on "The Future of Searches and Serendipity Projects."

Thursday, April 19

Center for Gravitational Physics and Geometry, 11:30 a.m. 339 Davey Lab. Michael Reisenberger on "Self-Dual Action for Simplicial Gravity."

WISE Institute Lecture, 2:30 p.m., HUB Assembly Room. Sue Rosser on "The Relationship Between Women's Studies and Women in the Sciences and Engineering Programs."

Physics, 3:30 p.m., 101 Osmond Lab. Michael Weissman on "What is All the 1/1 Noise About?"

Ecology, 3:45 p.m., 108 Wartik. Marilyn Caldwell on "Plant Resources Acquisition and Competition Below Ground."

Friday, April 19

Accounting, 3:30 p.m., 333 Beam BAB. Paul Healy on "Do Firms Benefit from Expanded Voluntary Disclosure?"

Geography's Coffee Hour, 4 p.m., 26 Hosler. President Graham Spanier, "An Informal Conversation with the President."

Philosophy, 4 p.m., 218 Willard. Dimitri Giner on "Variants of Hermeneutic Philosophy of Science."

CONFERENCES

Monday, April 15

■ Successful Inkeeping: Managing a Bed and Breakfast Inn, Penn State Scanti-

con. Speakers are Carl Glassman and Holly Stite. To register, call (800) PSU-TODAY.

Rural Water Quality/Real Estate Transactions, Nittany Lion Inn.

Tuesday, April 16

Swimming Pool Pesticide Training, Mitchell Bldg.

Wednesday, April 17

PA Bankers, Nittany Lion Inn.

Friday, April 19

R. Hadly Waters Logistics and Transportation Symposium, Penn State Scanton. Joseph C. Androski on "Logistics Leadership: Developing Relationships with Senior Management." For information, call (814) 865-1866.

Sunday, April 21

Penn State Green Design Conference, 10 a.m.-3 p.m., Cafe Laura, Mather Bldg. For information, call (814) 863-7688.

EXHIBITS

HUB

Art Alley Panels and Cases:

Central PA. Scholastic Art Competition, April 16 through May 12.

Kern

Kern Panels:

Greg Grieco Photography. Based on a 1994 trip to Cuba. Illustrates the life of the people in this proud country. April 16 through May 12.

Kern Cases

Diane Maurer Marbled Paper: collages, books and wearable art. April 16 through May 12.

Palmer Museum

"Beyte Saar: Tangled Roots," April 16 through July 21.

"Workers: An Archaeology of the Industrial Age: Photographs of Sebastião Salgado." Through June 9.

Pattee

Lending Services Gallery

and West Lobby galleries: Spectrum, student art work. Through April 30.

Zeller Gallery

MFA Exhibition-Nancy Brassington, April 20 through April 30.

■ Reflects an international perspective

Private Giving

Fred Waring
Collection at
Pattee grows

The addition of new materials to the Fred Waring Collection at Pattee Library reflects the relationship between the nationally beloved choral leader Fred Waring and Walt Disney.

The University Libraries' Fred Waring Collection has the only known copy of a filmed message from Walt Disney about the release of the Disney film "Alice in Wonderland" (1951). Fred Waring worked collaboratively with Disney on the film and Waring featured the music from the film on his popular weekly television show sponsored by General Electric.

In August 1995, TV is OK Inc., a television production company, contacted the Libraries to request the kinescope of the Waring program for a Walt Disney limited edition laserdisc release of "Alice in Wonderland." In addition, Disney wanted to make a 35mm preservation negative for their archives. In return, the Waring collection has received a beta cam video copy of the Waring program from the production company and Disney sent the 35mm print of the program from the negative they made and a copy of the laserdisc limited edition of "Alice in Wonderland" with all the additional material. This film, the making of, the making of "Alice in Wonderland," demos of the songs; original illustrations; and a rarely seen silent short on "Alice in Wonderland" produced by Disney in 1923.

Correspondence between Disney and Waring also is available in the collection.

Matching gifts of \$500,000 endow
international engineering exchange

Harold J. and Inge Marcus of Seattle have given matching gifts of \$500,000 to the College of Engineering and the American Society for Technion, to endow an international exchange in industrial engineering between Penn State and the Israel Institute of Technology. Harold Marcus earned a bachelor's degree in industrial engineering from Penn State in 1949.

The gift is designed to encourage an exchange of ideas and faculty, support student exchanges and stimulate joint research projects. The income from their endowment will provide annual funds for these exchange projects.

Penn State's industrial engineering department was ranked among the top five undergraduate and graduate programs in the United States by *U.S. News and World Report* in its Sept. 11, 1995 issue. The department enrolls approximately 295 undergraduates and 150 graduate students each year.

The Technion industrial engineering and management program — the first such department in Israel — was established in 1957 and has steadily grown to its current enrollment of 1,000 undergraduate and 500 graduate students. The American Society for Technion is a not-for-profit organization that collects and invests funds for the Technion in the United States.

In August 1996 the partnership will hold its first joint meeting, when eight to 10 faculty from the Technion will come to Penn State for a week to discuss engineering topics and begin building the personal relationships on which the future success of this program will stand.

Hal Marcus is originally from Brooklyn, N.Y., and was employed in the fields of management consulting and industrial engineering for a number of years following graduation. He holds an M.S. from the University of Southern California.

He is president of Hal Marcus Inc. and American Villages Inc., both corporations involved in the development and management of real estate. He is chairman of the board of trustees for St. Martin's College in Lacey, Wash., and also a member of St. Peter's Hospital Foundation Board in Olympia, Wash.

Inge Marcus earned a B.S. in biology from St. Martin's College and an M.S. in health sciences from Chapman College. During the 1960s, she worked as a laboratory technician and published scholarly research reports on a number of projects including one project supported by a NASA grant. More recently, she taught biology at Pacific Lutheran University. Currently Inge is a member of the Swedish Hospital Foundation Board in Seattle. She and her husband are co-chairs of the St. Martin's College's campaign for a new library.

Palmer Museum of Art's benefactors
donate \$50,000 for art acquisition fund

The Palmer Museum of Art acquisition fund increased by \$50,000 thanks to a gift from the museum's benefactors, James R. and Barbara R. Palmer of State College.

In 1986 the Palmers' gift to Penn State produced \$3.1 million for the renovation and expansion of the university art museum.

James R. Palmer is a retired CEO of C-COR Electronics and former director of the National Cable Television Association and former president of the Pennsylvania Cable TV Association and a founding president of the Association of Cable Television Suppliers. He has been named to *Who's Who in the World*, *Who's Who in Finance and Industry*, *Who's*

Who in Cable Communication, *Who's Who in Technology Today* and the *Directory of Distinguished Americans*.

Mrs. Palmer served on the C-COR board of directors for 23 years. She also served on the board of directors of the Friends of the Museum of Art and the Penn State National Development Council and remains active in many organizations. In recognition of her work for Penn State and the community, she was honored by the Penn State Renaissance Scholarship Fund. Barbara R. Palmer Renaissance Scholarships were established to provide assistance for the "brightest and neediest students" at Penn State.

Rare Books Room to be home for photo-history collection

By giving the University Libraries their extensive collection of photo-history materials for a fraction of its total value, Heinz and Bridget Henisch have enabled Penn State to acquire a valuable resource in the realm of social and art history.

The Bridget and Heinz Henisch Photo-History Collection emphasizes the 19th century, and includes daguerreotypes dating back to 1842, ambrotypes, tintypes and hand-colored photographs on paper, photographic albums, a portfolio of early advertisements, examples of war photography from the Crimean War of 1853-56, and other items that represent early uses of photographic

techniques. It also contains 19th-century photographically illustrated books, large silver prints, cameras, photographs on unusual media (leather, ceramic, metal, etc.), modern books on photo-history, rare issues of photo-history journals, and archival information and correspondence.

For more than 32 years, the Henishes have been building a teaching collection that illustrates and documents the development and changes of styles, fashion, political propaganda, advertising, book design and humor, among other things. The Henisch collection will reside in the Rare Books Room of the

Pattee Library on the University Park Campus.

Heinz Henisch is professor emeritus of the history of photography in the College of Arts and Architecture, and of physics in the Eberly College of Science. With his first course (Art History 450) in 1974, he helped establish an advanced-degree program in photo-historical studies at the University. He is a Fellow Emeritus of the Institute for the Arts and Humanities Studies. He is also the founding editor of *History of Photography*, an *International Quarterly*, which publishes new findings in the photo-history world.

He began his tenure at Penn State

in 1963, having previously taught at the University of Reading, UK.

Bridget Henisch, a medievalist and food historian, has written *Fat and Feast: Food in Medieval Society* (Penn State Press), and also *Cakes and Characters, an English Christmas Tradition* (Prospect Books, London). A collaborative of her husband on *The Photographic Experience, 1839-1914: Images and Attitudes* (1994), and *The Painted Photograph, 1839-1914: Origins, Techniques, Aspirations*, which will be published in September. A third volume of the trilogy, *Positive Pleasures: Early Photography and Humor* is in an advanced stage of preparation.

WEB BROWSER

By DOUG STANFIELD
technology editor

Integrated sites

■ The History Museum of Slavery in the Atlantic

This is a virtual museum that disseminates research on slavery to the public. It is aimed primarily at high school students and their teachers to assist in enriching history and social science curriculum.

■ The Madagascar Museum Society

A virtual display of the works of early 20th-century Malagasy painter Emile Ralambo.

■ Larson's Markets for Educators

This is a service for educators, particularly those participating in TIAA-CREF retirement plans. The heart of this site is a weekly table demonstrating one-week, four-week, three-month, six-month, one-year and year-to-date performances for the CREF funds and the TIAA real estate account. This information is not available in this form from TIAA-CREF, and is extremely helpful to participants in determining optimal fund allocations.

The primary URL for these integrated sites is: <http://squash.la.psu.edu/~plarson/homepage.html>

Quick clicks ...

■ IBIS Documents: IBIS documentation is now on the Web at Penn State, and eventually users won't need to order printed copies.

The Office of Administrative Services (OAS) Web site provides online documentation for 10 IBIS forms, the Human Resources Function Index and IBIS News. Future additions planned are a page of frequently asked questions, a defined list of all IBIS functions, a global search function and documentation for more IBIS forms.

The actual use of IBIS is not available on the Web yet, but it will be. OAS is in the process of moving Emc2 electronic mail 'user forms' to the Web.

URL: <http://www.oas.psu.edu/oasdocs/ibis/ibis.htm>

■ Yeah, but what else do they know? Want to search for that one-time best friend from high school who still owes you money? Check out this slick 90-million-name database on the web at URL: <http://www.suitchboard.com/>

If you know of an unusual or particularly innovative use of the Web, please send the URL to dws@psu.edu.



Fore!

Although the weather outside keeps changing from cold to warm to cold again, students in Goll 101 are keeping their thoughts turned to hitting the links this summer. Teaching assistant Mike Shank, right, explains some of the finer points of putting to student Suzanne Clément in Recreation Building on the University Park Campus.

Photo: Greg Grieco

Obituaries

Karen M. Cameron, psychiatric assistant, The Hershey Medical Center from May 19, 1991, until her death March 2. She was 31.

Bridget M. Drain, residence hall worker, Housing and Food Services, from Oct. 26, 1971, until her retirement Jan. 1, 1982; died Jan. 29 at the age of 76.

Kathryn L. Fogleman, residence hall worker, Housing and Food Services, from July 6, 1964, until her retirement Oct. 23, 1976; died March 17 at the age of 82.

Austin D. Hall, instructor in history at the Penn State Worthington Scranton Campus, from Sept. 1, 1969, until his retirement Jan. 1, 1984; died Jan. 11 at the age of 55.

Edward H. Harris Jr., painter, Office of Physical Plant, from Sept. 14, 1950, until his retirement Jan. 1, 1967; died March 10 at the age of 91.

Joan L. Hipsh, secretary, Health, Physical Education and Recreation, from Sept. 1, 1969, until her retirement Jan. 1, 1985; died Feb. 16. She was 72.

William H. Hunt, senior patrol officer, The Hershey Medical Center, from Nov. 1, 1967, until his retirement Feb. 17, 1984; died March 2. He was 73.

Harry A. Hopkins, welder, mechanic-fabrication and maintenance, Office of Physical Plant, from Oct. 4, 1954, until his retirement Feb. 14, 1976; died Feb. 28 at the age of 81.

Frederick B. Laidlaw, assistant professor of English, from Sept. 1, 1956, until his retirement July 1, 1968; died Oct. 16, 1995. He was 93.

Miriam E. Lowenberg, professor and head of the Department of Food and Nutrition, from Feb. 23, 1952, until her retirement July 1, 1963; died Sept. 27, 1995 at the age of 98.

Ereleene F. May, senior clerk, telephone operators at The Hershey Medical Center, from June 13, 1985, until her death Jan. 27. She was 59.

N. Elizabeth Miller, residence hall worker, Housing and Food Services, from July 19, 1965, until her retirement May 19, 1984; died March 1 at the age of 72.

Eugene A. Myers, professor emeritus of economics, died Feb. 7 at the age of 86.

Dr. Myers, who was instrumental in helping establish the Middle East option in the College of the Liberal Arts, came to Penn State in 1947 as assistant professor of economics and retired as professor emeritus in 1975. Before that, he was an instructor of economics at the University of Pittsburgh and was a member of the Civil Service Commission in Washington, D.C., where he served in several capacities, including director and senior economist of the Wage Stabilization Division of the War Shipping Panel of the National War Labor Board.

He was appointed fact finder by

the state Department of Labor and Industry to handle cases involving the regional members of the National Education Association and school districts in the state. After he retired from Penn State, Dr. Myers continued to handle arbitration cases and taught at Thiel College in Greenville.

Dr. Myers, a member of the National Tax Association, American Academy of Political and Social Sciences, the Tax Institute and the Middle East Institute, earned his bachelor of arts degree, master's degree and doctorate at the University of Pittsburgh.

Ethel J. Myers, food production worker B, Housing and Food Services, from March 14, 1955, until her retirement Aug. 4, 1972; died Nov. 11, 1995 at the age of 84.

Margaret L. Reed, day hostess in the Office of the Dean of Women, from Sept. 1, 1949, until her retirement July 1, 1966; died Jan. 22 at the age of 90.

Arthur H. Reede, professor of economics in the College of the Liberal Arts, from Sept. 1, 1932, until his retirement Sept. 1, 1970. He died Jan. 22 at the age of 88.

Harold F. Shope, mail distribution clerk, Business Services, from Aug. 1, 1956, until his retirement Jan. 18, 1985; died Jan. 8 at the age of 73.

Gladys M. Stokes, nutrition aide, College of Agricultural Sciences, from Jan. 17, 1972, until her retirement July 1, 1986; died Feb. 21 at the age of 71.

Partings

Governmental Affairs special assistant announces his retirement from University

David R. Schuckers, Penn State's special assistant to the president for governmental affairs, has announced plans to retire from the University this summer.



David R. Schuckers

assistant since 1986.

Mr. Schuckers said it has been a privilege "to have completed my entire career with such an outstanding institution and to have been associated with such dedicated and talented faculty and administrators. I have utmost confidence that all of my associates will continue to excel as they represent Penn State in Harrisburg and Washington, D.C. Difficult challenges abound in both these capitals, but we have in place the best people to address them."

"Personally, I have many projects in mind, thousands of miles to go, grandchildren and family to enjoy, stories to tell and health to maintain," Mr. Schuckers said.

"Dave has served Penn State with great skill and distinction for 33 years," said President Graham B. Spanier. "He knows the Penn State system as well as anyone else at this University, and he understands the importance of our three missions of teaching, research and service. He is extremely well informed, on top of all the issues, and second to none in conveying the Penn State message in Harrisburg, in Washington, D.C., and in area communities. And he's well known and well regarded at the state, national and local levels. We have been extremely fortunate to have him with us at Penn State for so many years."

Mr. Schuckers, before being named special assistant to the president, was director of governmental

affairs, announced plans to retire from the University this summer.

Mr. Schuckers has been with the University for almost 33 years, serving in a number of governmental relations and University relations positions. He was named to his current position in January 1992, following the retirement of Frank Forn, who had served as special

Office to reorganize, eliminate position

President Graham B. Spanier has announced a reorganization of the Office of Governmental Affairs, effective July 1. This reorganization will result in the elimination of one administrative position at the University.

On July 1, Richard DiEugenio, director of Governmental Relations, will move into the position of special assistant to the president to Dr. Spanier and will be responsible for coordinating and administering the local, state and federal relations of the newly organized Office of Governmental Affairs.

"I am delighted that Dr. DiEugenio is willing to accept this responsibility for the University," Dr. Spanier said. "I am confident that Rich, as a 10-year veteran in Penn State's Office of Governmental Affairs, will be able to carry on the tradition of the highest quality professional representation for us established by his predecessors." He currently represents Penn State in Harrisburg, and formerly worked with federal legislators as Penn State's representative in Washington, D.C.

Helen Caffrey, director of Commonwealth Relations for the Commonwealth Educational System, will move to the Office of Governmental Affairs and will serve in a senior role directing the University's statewide representation outside of Harrisburg and Washington, D.C.

Robin Jones, director of Legislative Affairs, will assume an expanded role. Ms. Jones will oversee all non-defense federal government relations including civilian science research policy and fund-

ing. Dr. DiEugenio will oversee federal defense-related research issues.

Because of his extensive prior experience in the state government, Anthony Wagner, director of Legislative Affairs, who is currently based in Washington, D.C., will be reassigned to state-related governmental affairs and will have his primary focus in Harrisburg. Mr. Wagner will continue to follow agricultural issues at both the state and federal levels.

Mark Reisinger will continue his duties at The Milton S. Hershley Medical Center with responsibilities for state-related health affairs and issues affecting the College of Medicine.

Before joining Penn State in 1986, Dr. DiEugenio served as senior legislative associate for the U.S. House of Representatives Committee on Education and Labor. He also served as the Pennsylvania Department of Education's Washington representative under the former state secretary of education, John Pittenger.

A native of Downingtown, he received a bachelor of arts degree in political science from Ursinus College, a master's degree in education from Temple University and a doctorate with honors in political science from Georgetown University. He has completed additional graduate work at the University of Michigan, Rhode Island College and the University of Iowa.

His University assignments include membership on the University Faculty Senate's Subcommittee on External Relations. He served as an elected member of the State College Area Board of School Directors from 1989-1993.

relations from 1977 to 1992. Before that, he was director of University relations from 1969-1977 and assistant director of University relations from 1968-69.

He joined the University in 1963 as a coordinator in the Continuing Education Conference Center.

Mr. Schuckers has been responsible for governmental liaison in Harrisburg and in Washington, D.C.

As director of governmental relations, he repre-

sented Penn State in Harrisburg for six years and in Washington for the previous nine years. A U.S. Army veteran, he served as a member of the President's Community Advisory Committee and as a member of the board for the Centre County Industrial Development Corporation.

Mr. Schuckers has a bachelor's degree in geology/geography from Muskingum College, New Concord, Ohio, and a master's degree in higher education from Penn State.

Several on staff retire after long tenures

Thomas C. Coleman, area representative II in CES-central, from July 1, 1970, to Feb. 16.

Barry R. Crater, janitorial worker in Office of Physical Plant, from Dec. 1, 1967, to Jan. 28.

Ok-Hi Lee, registrar of exhibitions in University Arts Services, from Aug. 28, 1985, to Feb. 1.

Richard L. Price, groundskeeper/golf course, Intergolite Athletics, from Aug. 24, 1976, to March 1.

Patricia A. Via, staff assistant IV at Penn State Erie, The Behrend College, from Aug. 16, 1976, to Feb. 2.

Human resources specialist retires after more than 28 years of service to University

Richard H. Brown, human resources development specialist with the Office of Human Resources, retired Jan. 1 after more than 28 years of service at the University.

Mr. Brown started with the University in 1967 as a personnel assistant in the Office of Physical Plant. In 1974, he transferred to the Office of Business Services to work as an aide to the assistant vice president and serve as the office's personnel representative. At the time, he also was a member of the University Committee for Training and Development and the University Safety Council.

From 1979 through 1986, he served as the director of Fleet



Richard H. Brown

and Airport Services and, from 1980 through 1986, as manager of the University Park Airport. During this period, he was a member of the National Association of Fleet Administrators Inc. and the American Association of Airport Executives, for which he served on the program committee of the International Aviation Snow Symposium for six years.

Mr. Brown also has served as a member of the Aviation Council of Pennsylvania and on the State College Area Chamber of Commerce's transportation committee, which he chaired in 1986.

In 1987, he transferred to the Office of Human Resources to provide special instruction in the areas of supervisory management and customer service.

He is current president of the State College Kiwanis Club, of which he has been a member since 1981. He holds an A.B. degree in economics from Temple University and a master's in vocational industrial education from Penn State.

Mr. Brown and his wife, Katherine, who is also a University retiree, live in State College. They have three daughters and are awaiting their third grandchild.

Penn Staters

H.L. Barnes, Distinguished Professor of geochemistry and director of the ore deposits research section, gave six lectures on advances in geochemical understanding of ore-forming processes at Nanjing University, the largest center for mineral deposits research in China.

Blannie Bowen, C. Lee Rumberger and family professor of agriculture, was elected to the National Future Farmers of America Foundation Board of Trustees and the National FFA Board of Consultants.

Paul Dimick, professor of food science, gave the keynote address on conching technology and the use of fractionated milkfat in chocolate at the Pacific Star Communications Con Tech '96 conference in Melbourne, Australia. He also spoke on milkfat fractionation at the International Milkfat Update Conference sponsored by the Australian Food Science and Industry Centre in Werribee, Australia.

Hector Flores, professor of plant pathology and biotechnology, presented a talk on "New Foods from Old Crops" at the Smithsonian Institution, Washington, D.C., as part of an electronic classroom transmission to high schools around the country. The talk was tied to National Agriculture Week.

Heather Hawkins, a Ph.D. candidate in the intercollege graduate program in materials, and **Barry Schetz**, senior scientist and professor of materials in the Intercollege Materials Research Laboratory, won the 1995-96 Best Paper Award from the Nuclear and Environmental Technology Division of the American Ceramic Society for their paper "Monophasic Sodium Zirconium Phosphate (NZP) as a Host Structure for the Immobilization of Reprocessed High-Level Commercial Wastes."

Holly Hedstrom, extension agent in Erie County, College of Agricultural Sciences, has received the Distinguished Service Award from the National Association of Extension Home Economists.

Steve Heine, associate professor of religious studies, has received a 1996-97 National Endowment for the Humanities Fellowship for research on the relation between philosophy and popular

religiosity in the Zen Buddhist tradition. The project focuses on the Wild Fox Koan, a narrative that combines metaphysical speculation on the issue of causality with an East Asian folklore theme of spirit possession and exorcism.

Sridhar Komarneni, professor of clay mineralogy in the Department of Agronomy and Materials Research Laboratory, co-organized a symposium titled "CO₂ Fixation and Efficient Utilization of Energy" at the 1995 International Chemical Congress of Pacific Basin Societies in Honolulu, Hawaii. He presented three invited papers on "Novel Microwave-Hydrothermal Processing for Materials Synthesis Leads to Energy Savings," "Oxygen Deficient Nanophase Ferrites for CO₂ Decomposition," and "Ultrasonic Stimulation of Inorganic Reactions."

Calyampudi R. Rao, professor of statistics, holder of the Eberly Family Chair in statistics, and director of the Center for Multivariate Analysis, has been awarded an honorary doctorate of science degree by Sri Venkateswara University in Tirupati, India.

Dr. Rao, internationally acknowledged as one of the world's top statisticians, holds approximately 20 distinguished honorary doctorate degrees from universities in 15 countries.

Dr. Rao recently presented several invited lectures in India. In Calcutta and Hyderabad, Dr. Rao visited the Indian Statistical Institutes where he lectured on "Statistics: The Science and Art of Interpreting Data," "Some Inequalities in Estimation Theory" and "Statistics for Quality Control."

At the 83rd Session of the Indian Science Congress Association in Patiala, Dr. Rao gave a lecture titled "Cross-examination of Data: Making Figures Speak." In addition, in Tirupati, at Sri Venkateswara University, he gave three invited lectures: "Statistics for Human Welfare," "Some Inequalities in Estimation Theory" and "Indian Traditional Water Science."

Alison D. Reeves, assistant marketing manager and publicist at the Penn State Press, has been appointed to the Black History Advisory Committee of the Pennsylvania Historical and Museum Commission. The committee provides advice and assistance on the PHMC's programs promoting black history in Pennsylvania.

Della M. Roy, professor emerita of materials science, has been appointed to the President's Advisory Committee of the National Academy of Engineering. This committee was recently developed to provide advice to the president of the academy. It deals with overall policy issues of the academy, recommending possible changes and modifications to existing procedures. Dr. Roy also has been appointed to the Waste Isolation Pilot Plant committee of the Board on Radioactive Waste Management of the National Academy of Sciences/National Academy of Engineering/National Research Council. This committee reviews developing plants and advises on policy for the developing transuranic waste repository in New Mexico.

Herbert S. Siegel, professor of avian physiology, Department of Poultry Science in the College of Agricultural Sciences, delivered a lecture titled "Plasma and Yolk Cholesterol Regulation in Selected Lines of Japanese Quail with Some Immunological Implications" at the Wageningen Agricultural University, Wageningen, The Netherlands.

Ronald A. Smith, a sport historian and professor of exercise and sport science, presented the Earle F. Zeigler Lecture at the University of Western Ontario. He spoke on "Television and American College Football: Commercial Accommodation and Acrimony."

Allen L. Soyter, professor and head, industrial and manufacturing engineering, was recently elected as senior vice president of professional enhancement on the board of trustees of the Institute of Industrial Engineering.

Jack Sulzer, head of General Reference in Pattee Library, has received the 1996 Congressional Information Service/ Government Documents Round Table of the American Library Association Documents to the People Award. The award, presented annually to the individual, group, or organization that most effectively encouraged the use of documents in library service, includes a \$2,000 cash stipend to be used to support a government documents project of the recipient's choice.

25-year Awards



Thomas Rodkey



Allen G. Anderson



Donald Andrews



Carole A. Bookhamer



Robert W. Schroeder



Edward G. Skelly

Observing 25 years of service at the University are, from left, Thomas Rodkey, supervisor of trades, Office of Physical Plant; Allen G. Anderson and Donald C. Andrews, both maintenance workers; General B. Carole A. Bookhamer, staff assistant; and Robert W. Schroeder, maintenance worker and Edward G. Skelly, both maintenance workers, all at the Penn State Altoona Campus.

Opportunities abound for states to test labor reforms

By GARY CRAMER
Public Information

The federal government's hand-off of some of its traditional duties to states presents a historic opportunity for labor law reform, David A. Morand, assistant professor of management with the Penn State Harrisburg School of Business Administration, said.

"In the current political climate, the National Labor Relations Board could easily drop its jurisdiction over a variety of industries, thus paving the way for states to be used as testing grounds for much-needed reforms," Dr. Morand said. "Lessons learned through experimental reforms in state settings could lead to increased U.S. competitiveness against countries with strongly pro-union industries."

Dr. Morand outlines three major strategies for putting labor law reforms into state hands without undermining federal power:

First, at the judicial level, the Supreme Court could narrow the scope of federal preemption — that is, it could allow states more leeway to pass and enforce their own labor relations laws. One specific outcome from this might be that states would be able to protect workers from being fired for union activity.

With respect to discrimination against union members, state attempts at lawmaking have always been preempted at the federal level because of prior Supreme Court decisions interpreting the 1935 Wagner Act.

"Ironically, in the case of almost all other federal labor legislation, state initiatives are often encouraged rather than preempted," Dr. Morand said.

For example, states are free to pass and enforce laws making it illegal to discriminate based on race, religion, gender, age, disabilities, whistleblowing, etc."

There is no reason, however, why the current court could not narrow the scope of the preemption doctrine,



David A. Morand, assistant professor of management in the Penn State Harrisburg School of Business, has identified three major strategies for putting labor laws into state hands.

giving states at least some leeway, Dr. Morand said.

Second, at the administrative level, it is already well within the power of the National Labor Relations Board (NLRB) to decline authority over industries which have little impact on interstate business and let states take over the chore. And although it has never been done, the NLRB also can cede authority, on a state-by-state basis and at the request of a state, to those states whose existing labor laws do not conflict with federal laws.

Seventeen states currently have just such labor laws, known as "Little Wagner Acts," covering private sector employers. However, very few employees are actually covered under the state laws because of the current scope of the National Labor Relations Act.

Feller, director of Penn State's Institute for Policy Research and Evaluation and professor of economics, reports that universities are beginning to evaluate the effects of cost-sharing and matching fund requirements.

"Federal agency program announcements that stipulate university contributions or pre-award budget negotiations that require universities to find money from industry,

"The options for both declining and ceding jurisdiction already exist as explicit provisions written into the language of the act, yet neither of these options have ever been seriously considered, either by the board or by individual states," Dr. Morand said. "The time may be ripe for the NLRB to use these discretionary powers."

Third, at the legislative level, Congress could give the NLRB greater authority to decline jurisdiction over specific industries.

Dr. Morand suggests that prime examples of businesses that would be better covered under state laws include retail stores, restaurants, hotels and motels, nonprofit and charitable organizations, medical practices and universities. He further says that many small businesses could be dropped from federal cover-

age by merely updating the dollar limits used to determine when their economic impact on interstate business becomes worthy of federal attention. Those figures have not been adjusted for inflation at all since 1954.

"These approaches would be consistent with the swing toward the federal government passing legislative responsibility over to states in other areas, such as welfare, education and medical insurance cost containment," Dr. Morand said. "As long as any new state labor laws do not counteract federal laws, variations in legislation could exist from one state to the next as allowed by local political considerations."

Dr. Morand said there are two major reasons why the time may be ripe for a partial decentralization of labor/management regulation:

First, "Federal preemption was once thought vital to deal with the problem of interstate competition over labor costs, that is, to create a level playing field among the 50 states. Today, however, with the rise of the service sector, many businesses are purely local in nature and could not, even if organized, move to another state with a different labor relations climate."

Second, "Unions have been terribly frustrated with a number of significant weaknesses in the labor relations act and have been even more frustrated with the many legislative attempts to amend it," Dr. Morand said.

Even former AFL-CIO president Lane Kirkland went so far as to state, on record, that unions might be better off with no federal law at all, Dr. Morand said.

"Thus, the notion of allowing some state-level labor initiatives is likely to appeal to both liberals and conservatives alike," he said. "Liberals, due to the frustration with the National Labor Relations Act, and conservatives, due to the overall trend toward decentralization of federal prerogatives to the states."

Cost-sharing load can strain university-government relationship

Increasingly, requirements for cost-sharing or matching funds in federal grants and contracts are eroding the cooperative spirit between universities and the federal government, according to a researcher.

Based on a survey of nearly 200 universities that detailed their experiences, and on interviews with academic administrators and faculty in eight universities and program managers in federal agencies, Irwin

match funds and cost-share is limited, Dr. Feller said. Universities may pass on projects because they cannot provide matching funds, even if they have nationally competitive researchers.

"Institutions are just now beginning to recognize this quandary," Dr. Feller said. "Right now the response is one of frustration and it is straining relationships between universities and the government."

ATHLETICS

A regular column provided by Intercollegiate Athletics

Honors go to Dunn

Men's basketball Coach Jerry Dunn, who guided the Nittany Lions to a second place tie in the Big Ten, was named District 3 "Coach-of-the-Year" by the National Association of Basketball Coaches.

Big Ten Academic All-Conference team

Thirty-seven Penn State student-athletes representing winter sports were named to the Big Ten Academic All-Conference team. The contingent was led by 13 honorees from women's swimming and diving and eight from men's swimming and diving. To be eligible, candidates must be non-freshmen letterwinners with a cumulative grade point average of "B" or better.

Lacrosse matches

The nationally ranked men's and women's lacrosse teams will have late-season home stands that could impact postseason NCAA Tournament invitations. The men's team is home for a three-game stretch starting April 17. The women have critical games April 20 and 22.

Fencers No. 1

With another exceptional performance, the Penn State fencing team captured a second consecutive NCAA Championship and collected its fourth National title in the last seven years at the recent competition in New Haven, Conn.

The championship was Penn State's 39th NCAA team title and the seventh for the fencing program. The team is coached by Emmanuil Kaidanov.

Senior Olga Kalinovskaya of St. Petersburg, Russia, garnered a fourth consecutive NCAA individual crown in women's foil. She is the first woman, and only the second fencer, ever to win four straight NCAA titles.

Olympic hopeful?

Heavyweight wrestler Kerry McCoy, who took a redshirt year from collegiate competition this season, has qualified for the U.S. Olympic Freestyle trials in Spokane, Wash., June 7-8. He is hoping to land a berth in the 220-pound weight class.

For the Record

The date for President Graham B. Spanier's visit to the Pennsylvania College of Technology is April 24. The incorrect date was given in a story on page 4 of the April 4 *Intercom*.



Visibility is the key

Bob McCue of Fairfield Co. secures a new sign in place for the Dining Room at the Inn outside the Nittany Lion Inn on the University Park Campus. The inn wants to let people know that the restaurant is open to the public, not just to hotel guests and University employees.

Photo: Greg Grieco

Hershey Medical Center gets \$50,000 grant

The National Foundation for Cancer Research has given The Hershey Medical Center \$50,000 to help fund breast cancer research.

Danny R. Welch, the principal investigator and an assistant professor of pathology at Hershey, said the funds will be used to "help identify the gene or genes that regulate metastasis in human breast cancer." Metastasis is the spread of tumor cells to secondary sites, which is the major complication associated with cancer deaths. If tumors are removed before they spread, long-term survival approaches 100 percent. If metastases exist, survival

beyond five years is nearly 0 percent.

"As cancer cells become more autonomous, they become less responsive to therapies," Dr. Welch said. "Without a better understanding of the mechanisms responsible for breast cancer progression, significant improvements in cancer therapies are not likely."

Several resources, including the W.W. Smith Charitable Trust and the National Cancer Institute, are helping to fund Dr. Welch's research in this area.

"The funding from the National Foundation for Cancer Research is

especially important to our efforts," he said. "They support our type of research: finding solutions to cancer by looking at how cells function, rather than trying to attack tumors through drugs, surgery or radiation."

The National Foundation for Cancer Research, which relies on donations from individuals and corporations, supports the best ideas of the best minds and using the skills of many scientific disciplines. The foundation encourages collaboration and the sharing of ideas and results, as advances in one field often contribute to progress in another.

PENNSTATE INTERCOM

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First Ph.D. recipient to turn 100

By ALAN JANESCH
Public Information

After Marsh White got his Ph.D. in physics on June 15, 1926 — the first doctoral degree ever awarded by Penn State — he went on to become a professor of physics at the University, the founder and long-time officer of the Penn State chapter of a national physics honor society, the co-author of what is arguably the best-selling college physics textbook ever and a consultant to the Pentagon during World War II.

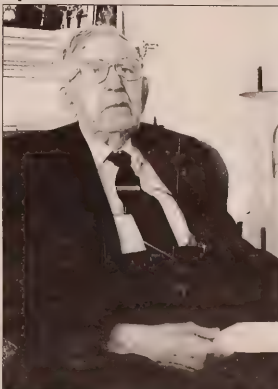
Those are just a few items from Dr. White's impressive resume. To cap it all off, on April 22 he is going to celebrate his 100th birthday. But Dr. White acts like he doesn't understand what all the fuss is about.

"The only real news item is the fact that I'm 100 years old," Dr. White said. "There's a new century, and here's an old man, still with us for a while. That's news, but that's about the only news."

But Dr. White is downplaying the contributions he's made and the changes he's seen since he first came to Penn State as a graduate student. Since he earned his Ph.D. in 1926, his diploma has hung in the board room of the Kern Graduate Building, along with portraits of past graduate school deans. As a Penn State faculty member (and assistant instructor during his graduate school years), Dr. White taught here for more than 40 years.

During that time, he has watched physics change from a science that focused largely on simple machines, like levers and inclined planes, to a discipline that now extends not only inward to the smallest particles of matter but also outward to the farthest reaches of the universe.

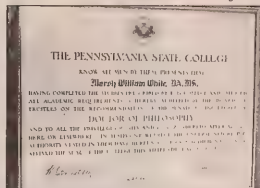
In 1947, Dr. White co-wrote a textbook on college physics that has been used in more than 100 U.S. colleges and technical schools



Centenarian

Marsh White, who turns 100 this month.

Photo: Greg Grieco



As the University's first Ph.D. recipient, Marsh White's diploma still hangs in Kern Building on the University Park Campus.

Photo: Kristie Guldnor

See "Mr. Fraternity" on page 3

UPC seeks input on University's mission, priorities and goals

The University Planning Council was appointed last fall by President Graham

B. Spanier to provide overall guidance to Penn State's strategic planning efforts. These efforts will lead to the development of strategic plans for the five-year period beginning July 1, 1997. The council has undertaken a broad review of University-wide priorities, critical processes and structure, and is now seeking comment from the University community.

"In light of the changing dynamics and scarce funding for higher education, it is critical that Penn State review its mission, core values, vision, core values and strategic goals.

An inset, beginning on page 9 of this issue, reports on the results of the 1996 Faculty and Staff Survey. As Executive Vice President and Provost John Brighton notes in this article, the results of this survey will be used to guide development of strategic planning issues and action plans.

The University Planning Council encourages involvement and discussion of the survey results and statements prepared by the council with faculty, staff and students at all levels of the University.

The University's 27 academic and support units. These individual plans are now in the early stages of discussion.

"Strategic planning has been important at Penn State for more than a decade. The current budget realities,

Just a note ...

This issue of *Intercom* contains two articles on Penn State's planning activities and efforts to improve the stature and climate of the University. One article provides a progress report on the activities of the University Planning Council, appointed by President Graham B. Spanier to guide development of strategic plans for the University and each of the colleges and major administrative units for 1997-98 through 2001-02. Accompanying this article are a set of statements developed by the council of the University's mission, vision, core values and strategic goals.

An inset, beginning on page 9 of this issue, reports on the results of the 1996 Faculty and Staff Survey. As Executive Vice President and Provost John Brighton notes in this article, the results of this survey will be used to guide development of strategic planning issues and action plans.

The University Planning Council encourages involvement and discussion of the survey results and statements prepared by the council with faculty, staff and students at all levels of the University.

See "UPC" on page 4

Inside



Ticking the ivories

Pianist Carl Blake joins the Nittany Valley Symphony in a special performance on Tuesday, April 23. For more arts information, see page 14.



Endowed faculty positions at Penn State

Ever wonder who holds what endowed chair and how many endowed positions the University lays claim to? For a full listing, turn to pages 6 and 7 in this issue.

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DIVERSITY

Indigenous knowledge conference planned

The Interinstitutional Consortium for Indigenous Knowledge (ICIK) and the College of Education will host the first conference on indigenous knowledge Thursday and Friday, April 26-27, at the Paul Robeson Cultural Center on the University Park Campus.

"Indigenous Knowledge: Its Role in the Academy" will focus on reviewing strategies for integrating indigenous and contemporary knowledge into the University curriculum. Indigenous means anything that is produced, growing or living naturally in a particular region or environment.

The ICIK is one of 25 resource centers that bring educators, sociologists, economists, agriculturalists and others together to increase and improve the study and understanding of indigenous

or native knowledge systems around the world, since they are often endangered.

"Indigenous knowledge is local knowledge as defined by the people in that local environment," Ladi Semali, professor in the College of Education and director of the ICIK, said. "We are trying through the ICIK to integrate the indigenous knowledge system with western knowledge without devaluing one or the other."

Alternative or indigenous medicine such as acupuncture and herbalism, long considered far out of the western medical mainstream, are now gaining recognition and popularity. A recent university study revealed that one in three Americans use alternative therapies for major medical problems.

Business and finance also can be

indigenous, according to Vernis Welton, assistant dean in the Smeal College of Business Administration and a conference presenter. "Esusu," or rotating credit associations, are popular in the West Indies and in West Indian American neighborhoods. Esusu members pool their money and each member takes a turn drawing from the accumulation.

The concurrent sessions of the conference focus on several curriculum areas: arts and humanities, social and behavioral sciences, the sciences, mathematics, agriculture and education.

The two keynote speakers, John Mohawk, a representative of the Six Nations Iroquois Confederacy and the Seneca Nation and an assistant professor of American studies at the

State University of New York-Buffalo, will discuss using indigenous knowledge in daily living; and Francis V. Rains, assistant professor of education at the University of Colorado-Boulder and a Native American advocate and teacher, will speak on defining and valuing indigenous knowledge.

"This conference takes a look at knowledge that has been ignored for many years but is still a source for understanding our surroundings and solving problems," Dr. Semali said. "We must document this knowledge before it disappears."

For more information on the conference contact Dr. Semali, College of Education, at (814) 865-6565.

Designer is keynote speaker for Fayette Women's Day

Award-winning personal designer Helen Villa Connor will be keynote speaker for the 15th Annual Women's Day on Campus at the Penn State Fayette Campus on Thursday, May 16.

Ms. Villa Connor entered the personal design field in 1982 after 15 years in educational publishing and multimedia development and design. Her innovative concepts have helped advance the knowledge base in the fields of fashion, personal design and body image. In addition to co-authoring the book *The Triumph of Individual*

Style, she created the Body's Design Pattern™ paradigm which separates the body from the clothes to allow one to see the body step-by-step through the elements of art. This approach allows the creation of a personal style that consistently speaks to the body's special language.

For her work, Ms. Connor has received national awards for innovation, excellence and education. For more information on the Women's Day Program, call (412) 430-4140 or (412) 430-4153.

Great Valley seminar to focus on career challenges for professionals

A free May 4 seminar at Penn State Great Valley will focus on career challenges and strategies for professional people of color.

The program will address the myriad social and economic trends—including downsizing in business, government and educational institutions—and the resulting dramatic changes in the marketplace.

This free seminar will be particularly valuable to minority professionals who are interested in advancing their careers; working at an entry or managerial level; employed or considering employment in business, industry, government or education; are looking for a way to enhance their credentials.

Nationally recognized management consultant Randolph Whitney Cameron will lead the program. Mr. Cameron, author of *The Minority Exec-*

utives Handbook, is the founder and president of Cameron Enterprises, a New York-based management consulting firm.

"The glass ceiling" will be a key focus of the program. Participants will learn about organizational development processes including leadership, building allies and cultivating mentors, techniques in team building, networking, managing change and the manager as entrepreneur.

The program, held on Saturday to avoid disruption of the work week, will run from 9 a.m. to 2:30 p.m. Registration will begin at 8:30 a.m., with a continental breakfast provided. Lunch also will be provided.

For more information or to register, call Nancy Rosenbaum at Penn State Great Valley at (610) 648-3257, by Monday, April 29.

Latino food festival set for April 22

A Latino food festival, planned by a student to help fund a summer internship, will be held from 11 a.m. to 5 p.m. Monday, April 22, in the Paul Robeson Cultural Center on the University Park Campus. Admission is \$5.

Student David Cruz has been chosen as an intern in the Summer Internship and Leadership Development

Program "Into the Fields," sponsored by Student Action with Farmers/Workers. He will work with farmers and their families in Kenansville, N.C.—if he can raise \$550, half of his summer living expenses. The festival will feature Mexican and Puerto Rican food.

For more information, call Odette Pineiro-Colon at (814) 863-9440.



Concert

Donna Reitz sings and dances with the rest of the Singing Lions at their Spring Show. Many other groups are planning concerts this month, including The Penn State Glee Club, The University Choir, The Early Music Ensemble, Percussion Ensembles I and II, the Campus Band and others. For details, please see the Arts briefs on pages 14 and 16.

Photo: Kristie Guldner

Mr. Fraternity

continued from page 1

and translated into at least two languages (including Japanese), and still brings Dr. White a quarterly royalty check from McGraw-Hill.

Well-known for his activities with fraternities, which earned him the nickname "Mr. Fraternity," in the late 1920s, he founded the Penn State chapters of Delta Chi, a social fraternity, and Sigma Pi Sigma, a national physics honor society.

For his work for the U.S. Department of War in the 1940s, he was honored by both the Pentagon and the White House. In 1944, Dr. White was made a special consultant with the war department's new developments division and was later named expert consultant to the secretary of war. "That was big stuff," he said.

In those positions, Dr. White headed a technical detachment that studied Army installations needing technical experts and screened Army inductees to identify those with college educations in technical subjects who could do research and scientific work.

"It was almost impossible (for the government) to find people with technical backgrounds, (and because) I was quite familiar with physics departments throughout the country, they asked me to come to Washington and organize the technical detachment," Dr. White said.

From 1963

to 1982, Dr. White served on the board of directors of C-COR Electronics, the State College-based firm that designs and manufactures high-quality electronic equipment for use in a variety of communications networks worldwide.

In fact, one of the firm's co-founders, John L. McClucas, came to the area because of Marsh White. James R. Palmer, who served as C-COR's chief executive for 31 years, recalls that Dr. McClucas "knew of Marsh White, and was so impressed with him that he wanted to come where Marsh White was to get his doctorate."

Born in Claremont, N.C., in 1896, Dr. White went to Park College, in Parkville, Mo. He intended to major in English and history, but as he puts it, "fell under the influence" of a physics professor who later won the Oersted medal. At Park College, Dr. White not only earned a bachelor of science degree in physics (in 1917), but met his future wife, Stella Steele. They married in 1917 and moved to Philadelphia, where Dr. White worked in a munitions plant.

About that time, Dave Duncan, acting head of the physics department of The Pennsylvania State College, came to visit Dr. White in Philadelphia and offered him a position in the college's fledgling graduate program.

"I got a salary of \$900 for nine months — that was pretty good."

"Nowadays, there's all this talk about atoms and sub-atoms — this business was unheard of when I first came to college. A single atom — a single hunk of matter — and believe it or not, someone got the notion of splitting this atom, and the nuclear age began."

— Marsh White

University's first Ph.D. recipient who earned his degree in physics

When Dr. White first came to State College in 1918, it was a simple country town, surrounded by farmland, its major streets unpaved. Dr. White recalls having a lot of fun with the college's prank-loving students, joining in their tug-of-war games and other outdoor fun. "For many years I played along with the students in a lot of things like that."

But he was tough on them in the classroom.

"I expected them to be prepared when they came to class," Dr. White said. "I very carefully assigned things in advance, and so it became well known that when you come to class, you're supposed to be prepared. Instead of me just lecturing at them, I wanted them to participate, so I got the reputation of being tough."

He said he doesn't think students are greatly different now — they're probably neither more frivolous nor more serious.

Throughout his life, Dr. White has been honored many times. In addition to his honors from Sigma Pi Sigma, he has received a National Interfraternity Council Conference silver medal (1981) "for a lifetime of service to youth;" a citation for outstanding service from the American Association of Physics Teachers (1953), of which he is a past president; a doctor of science degree (1958) and a distinguished service award (1950) from Park College; and a War Department citation (1946) and a Presidential Certificate (1948) for his work in the Pentagon.

One of the major influences on Dr. White's life was R.L. Edwards, his physics professor at Park College, and another was Stella, his wife of 68 years, who died in 1995.

"She was the brains of the family," Dr. White recalled in a 1986 interview with *The Penn State*. "After I saw Stella for the first time (at Park College), I told her I was struck by lightning like St. Paul at Damascus. I then managed to get invited to eat in her dormitory. But to get to the right table with the right girl took some time. They only invited boys to dine with them twice a year."

Dr. White's persistence paid off, and he and Stella married in 1917. They both received their master of science degrees from Penn State in 1920, and in 1922, Stella gave birth to twin sons, Kenneth and Laurence. Three years later a third son, Malcolm, came along. All three sons graduated from Penn State — Kenneth in 1944, Laurence in 1948 and Malcolm in 1949.

Dr. White speaks easily on a range of topics, including the many changes he's seen on campus and in the borough of State College, but he gets positively animated when he's asked about the changes in physics over the years.

"Nowadays, there's all this talk about atoms and sub-atoms — this business was unheard of when I first came to college. A single atom — a single hunk of matter — and believe it or not, someone got the notion of splitting this atom, and the nuclear age began," Dr. White said.

During his long life, Dr. White has been a body in motion, and now he is mostly a body at rest — "That's my favorite sport now, staying in bed," he said — but he still lives in his mail-order stone house on East Prospect Avenue, under the care of Vivian Hanscom, his nurse-companion.

"I'm very happy to have been here," Dr. White said. "This town has grown and now we're a pretty good city."

25-year Awards



Dennis Haines



William I. Horn Sr.



William Dennis Stewart



Lester C. Walters

Observing 25 years of service at the University are, from top, Dennis Haines, draftsman, Design and Construction, The Hershey Medical Center; William I. Horn Sr., maintenance worker/general B at the Penn State Schuylkill Campus; William Dennis Stewart, director, Business Services, Penn State Altoona Campus; and Lester C. Walters, lead, elevator technician, with the Office of Physical Plant.

Penn State's mission, values, vision and strategic goals

Penn State's mission is necessarily comprehensive, our vision ambitious, our strategic goals challenging and our core values fundamental to our success.

We affirm these aspirations as critical to the future of this University. Yet we must recognize the many barriers that Penn State's faculty, staff, administrators and students face as we aspire to greater excellence in a time of tightening resources. This requires that we establish priorities among programs and services and that we make resource decisions based on these priorities. Developing the fortitude to do this is the real test for Penn State as we embark on the development of a strategic plan for 1997-98 through 2001-02.

■ Mission Statement

Penn State is a multi-campus public land-grant university that improves the lives of people in Pennsylvania, the nation and the world through integrated, high-quality programs in teaching, research and outreach.

Our instructional mission includes undergraduate, graduate and continuing education informed by scholarship and research. Our research, scholarship and creative activities promote human and economic development through the expansion of knowledge and its applications in the natural and applied sciences, social sciences, arts, humanities and selected professions.

As a land-grant university, we also hold a unique responsibility for outreach and public service to support the citizens of Pennsylvania. We engage in collaborative activities with industrial, educational and agricultural partners here and abroad to disseminate and apply knowledge.

■ Core Values

We believe that education is the foundation of an enlightened and prosperous society. We seek a learning community in which:

The intellectual life is central and faculty, staff and students work together to achieve excellence in teaching, learning and the advancement of knowledge.¹

The dignity of all individuals is affirmed and equality of opportunity is pursued. Freedom of expression is protected and civility is affirmed. Individuals accept their obligations to the group and shared governance guides behavior for the common good. The well-being of each member is supported and service to others is encouraged. Our heritage is celebrated and change is embraced.

■ Vision Statement

Penn State will be one of the nation's finest universities and lead others in the integration of teaching, research and outreach.

Our distinction will lie in our academic quality, our continuous quest for excellence, the integration of our missions, our responsiveness to the public we serve and the sensitivity of our University community to all of its members. Our reputation will attract students of all ages, garner government agency and corporate research support and encourage strong public and private investment in Penn State.

Excellence in each of our missions is supported greatly by the integration of teaching, research and outreach. Faculty research and scholarship keeps instruction in all of its forms at the leading edge of a field and affords special learning opportunities for students. Teaching responsibilities help to orient knowledge-generating activities toward the users of knowledge. Outreach both extends the forum for teaching and creates opportunities for scholarship and research. We will promote these interrelationships to enhance Penn State's impact on the quality of the lives of the people the University serves.

■ Strategic Goals

To achieve excellence in scholarship, education and university life.

The quality of teaching and learning at Penn State ultimately determines the University's impact. Academic quality, therefore, is our highest priority. To promote excellence, we will continue to build on areas of strength and pursue areas of potential and need.

Academic quality will be sustained and enhanced by a vigorous program of continuous improvement in the core activities of teaching, research and outreach.

The undergraduate education core for all students will be broad, vigorous and carefully attended by the faculty. All undergraduate programs will be accountable for rigorous self-evaluation, and for demonstrating, sustaining and building excellence in teaching and active learning that integrates current scholarship and research. Undergraduate programs will equip students for productive and satisfying lives after graduation.

A strong and diverse student body will be recruited and retained throughout the University. The number of academically talented undergraduate students at Penn State will be increased and an expanded University Scholars programs will be provided to accommodate the educational needs of our most exceptional students.

Excellence in graduate education will be sustained and enhanced. Graduate pro-

grams will be reviewed periodically and improved. There will be special initiatives to recruit outstanding students and targeted enrollment increases in selected programs.

Continued growth in research will support our development of new knowledge and expand opportunities for faculty and students, and for the public Penn State serves. Faculty outreach activities will be valued as an expression of the University's instructional mission to off-campus audiences, for the contributions outreach makes to scholarship and research, and for the opportunities outreach creates for undergraduate and graduate students.

International perspectives and experiences will be emphasized to provide students better for employment in the international marketplace, to provide leadership on global issues and to open world markets to Pennsylvania industry.

Multidisciplinary and other innovative approaches in teaching and learning will be encouraged to capture more fully the complexities of the world Penn State serves.

Information technology will be expanded and improved to enhance the teaching, research and outreach components of our mission. Penn State plans to be a national leader in the use of information technologies.

Penn State's overall academic environment will be highly stimulating. Lecture series, cultural events, exhibits and extracurricular activities will extend and enhance intellectual opportunities for students, faculty, staff and the public.

To fulfill with distinction our commitment to the people of the Commonwealth.

Penn State's land-grant mission is distinctive within Pennsylvania's higher education community. This special mission brings us into partnership with the state's citizens to stimulate progress and enhance the Commonwealth's quality of life.

Access to Penn State's educational programs and resources will continue to be a priority, with special emphasis on the inclusion of underrepresented groups and expansion through the use of information technologies.

Working relationships with communities throughout Pennsylvania will be maintained by a multi-campus presence in the state and strengthened through the Commonwealth Educational System planning effort.

Support for agricultural research and cooperative extension programs will be a priority.

Pennsylvania's economic development will continue to be an important focus for Penn State research and service to business and industry. Partnerships with primary and secondary schools, extension programs in urban and rural areas, and community-based research will be pursued to improve the quality of life for Pennsylvania's families and youth. Service to state government will be encouraged, calling on faculty expertise and special University information resources.

Communication with the public will be enhanced to increase understanding of Penn State's contributions, create new opportunities for service and expand public support.

To foster a caring University community that provides leadership for constructive participation in a diverse, multicultural world. The single most important key to opening the doors wider to all people is to create an environment in which everyone feels welcome. This expresses our commitment to access and underscores the values of basic human respect and freedom, and supports Penn State's role in the global society.

Academic quality and commitment to community will be achieved through the inclusion of information and knowledge from the full spectrum of our collective human experience and through recruitment and retention efforts that continue to expand the participation of minorities and women.

Penn State's educational programs and extracurricular activities will promote the development of multicultural understanding and cross-cultural competence. Penn State's working environment will value civility and acceptance of increased cultural diversity and sensitivity.

¹ Based on Ernest L. Boyer, *In Search of Community*.

Adding your two cents

The University Planning Council invites anyone with comment on the mission statement, core values, vision and strategic goals to do so via e-mail or letter. The e-mail address is np3@psu.edu. You also will find these statements on the Web at <http://www.ur.psu.edu> under University Planning. Written comments may be directed to the University Planning Council, 405 Old Main, University Park, PA 16802.

UPC

continued from page 1

however, make effective planning at every level in the University absolutely critical in the years ahead," Dr. Brighton said. "Others have noted that the University's strategic planning process is unique for its continuity and because it is recognized by deans, department heads and faculty leaders as integral to the ongoing management of the institution."

As part of its early activities, the University Planning Council has conducted a review of the 27 unit strategic plan updates for 1996-97, and has provided input to the president on the Plan for the Commonwealth. Currently, the council is developing a list of core strategic issues the University must address over the next five years. These strategic issues will be printed in an upcoming issue of *Intercom* for University-wide consideration and comment.

In May and June, the council will meet with deans and vice presidents for preliminary discussions of the directions and issues that are emerging in the development of their individual unit strategic plans.

"The council will encourage units to establish their planning priorities in light of the University's strategic goals and the budget realities of today," Dr. Brighton said.

Strength coach to be in Paralympic Games

By JASON PRUCEY
Public Information

Penn State will be represented in the upcoming Paralympic summer games in Atlanta this year, to be held 10 days after the Olympic games, thanks to the abilities of a blind strength and conditioning coach at the University Park Campus.

Kevin Szott, a Clifton, N.J., native who is an assistant coach who designs strength-training programs for all of the University's varsity teams except football, will represent the United States Association of Blind Athletes in the judo competition. He has lived in State College for about eight years.

Mr. Szott, who was born with perfect vision, began as an adolescent to have difficulty seeing the blackboard in school. Told at first that he only had astigmatism, his vision continued to deteriorate. Fifteen doctors and a year-and-a-half later, Mr. Szott finally learned that a genetic recessive trait was actually responsible for his vision loss.

Although he is now considered legally blind, with less than 2 percent normal vision, he can still carry out many everyday activities, such as walking unaided on crowded sidewalks.

But Mr. Szott said the condition often makes it difficult to learn people's names because his vision is completely peripheral — allowing him to only see outer edges, eliminating the possibility of identifying people by their faces. "I can't associate a name to a face, so that makes it hard," he said.

Instead of depending on vision to recognize people, Mr. Szott concentrates on their voices.

"Usually after a few seconds I can recognize someone's voice," he said. "So when I'm saying 'hi' to a friend, I'm actually scanning through my voice Rolodex until I find the name."

In addition to his upcoming Paralympic competitions, Mr. Szott will also attend an Olympic dinner May 1 in Washington, D.C. The dinner brings some of the nation's best athletes together with the country's highest-elected officials in order to raise money to support Olympic athletes. This year, President Bill Clinton and Speaker of the House Newt Gingrich will speak at the event, along with several senators.

While in Washington, Mr. Szott will also take part in the "Champions in Life" program, a volunteer effort in which both Olympians and Paralympians travel to some of the city's



Tough competitor

Kevin Szott, who was born with normal vision but is now legally blind, will represent the United States Association of Blind Athletes in the judo competition during the Paralympic summer games in Atlanta. Mr. Szott is an assistant coach who designs strength-training programs for almost all of the University's varsity teams and club sports.

Photo: Greg Grieco

I like to do things like (giving inspirational talks to at-risk youths) for the community. It can often be a source of hope for people who desperately need it.

Kevin Szott
assistant coach and strength trainer

schools and give inspirational talks to at-risk youth. He said participating in such events is an important part of what he does.

"I like to do things like that for the community," he said. "It can often be a source of hope for people who desperately need it."

Although Mr. Szott has been involved in national and international competitions since 1984, this is the first time he has been invited to attend the dinner. Along with 30 Olympians with no disabilities, a total of 16 athletes with five different disabilities

among them will be in attendance. Mr. Szott will be one of only three blind athletes at the event.

Mr. Szott said receiving the invitation was an honor. "It's nice to get the recognition," he said. "It's nice that your peers acknowledge your athletic achievements."

Yet even though attending the Olympic dinner will be a first for Mr. Szott, the upcoming summer games certainly are not. In fact, if he captures medals in judo this year, Mr. Szott would be one of only two people to win Olympic medals in four different

events. He has already been awarded medals for wrestling, track and field and football — a game similar to volleyball and the only team sport in which blind athletes compete.

In addition to his extensive background in world competition, Mr. Szott also has played an important role locally for both State College and Penn State. He not only started his own strength-training business in town, called PHIT (Personal Health Instruction and Training), but he currently designs training programs for 28 varsity and 40 club sports at the University as well.

Mr. Szott said he has always been very enthusiastic about what he does.

"I always tell people to let me know if they hear me refer to what I do as 'work,'" he said. "I love what I do and don't ever want to call it that."

Faculty/Staff Alerts

800 access service

The Office of Telecommunications is now offering a new 800 service. The 800 access service allows traveling Penn State faculty and staff to call back to University Park Campus from anywhere within the continental United States at low long distance rates.

The service will support calls made to modem pools, voice mail, TIPS, office telephones and stu-

dent telephones within the 862, 863 and 865 exchanges.

Authorization codes are assigned to provide individual call records and billing details. Calls are at rates of 14 cents per minute, Monday-Friday, 8 a.m. to 5 p.m., and at 12 cents per minute during all other times.

For additional information, please contact your communications analyst.

Carpoolers

Carpool of four is seeking an additional rider to share ride from Philipsburg. Hours are 8 a.m. to 5 p.m., Monday through Friday. Phone 863-8520 or 863-2782 if interested.

Riders wanted for vanpool from Philipsburg to University Park. Work hours are 8 a.m.-5 p.m. Monday through Friday. Call Tim at 865-6524 or 342-3827 after 6 p.m.

ENDOWED FACULTY POSITIONS AT PENN STATE

Endowed faculty positions help create great universities. Named chairs, professorships and faculty fellowships are powerful tools for recruiting and retaining teachers and researchers who are among the best in their field, and for attracting the academically superior students who choose to learn from faculty of such calibre.

Private benefactors usually establish endowed faculty positions. The University invests the gift and uses part of the return on the investment to support the scholarly program of the faculty member. Funds generally cover such expenses as administrative support, scholarly travel, graduate assistant stipends and research.

"Faculty endowments allow us to recruit—or promote from within—individuals who have strong research programs, which strengthens our college,"

Barbara Shannon, dean of the College of Health and Human Development, said. "Furthermore, senior faculty members often bring grant money

with them when they come to Penn State and their experience allows them to bring in additional grants, training grants and other contracts."

Dr. Shannon also notes that faculty endowments help the college enrich the educational experiences of undergraduate students.

"When we seek individuals to fill our endowed positions, we recognize the importance of their teaching ability, as well as the importance of giving undergraduates hands-on experience in research," she said. "For example, **Catharine Ross**, holder of the Dorothy Foehr Huck Chair in Nutrition, is working with graduate and undergraduate students on research projects that examine how nutrition affects cell differentiation and cell growth, regulation and function.

"When they have the opportunity to do independent study, to work

with the faculty member or with the post-doctoral candidates, undergraduates receive a dimension to their education that they could not get at a smaller university that does not have our research enterprise."

Often recognized nationally for their accomplishments, the faculty members who hold endowed positions elevate the academic reputation of their college and the University. As **Gregory Geoffroy**, dean of the Eberly College of Science, explained, "Every time you fill one of these positions, there is a ratcheting up of academic stature. Having these renowned faculty members at Penn State attracts other outstanding faculty members and a higher calibre of graduate and undergraduate students."

In addition to benefiting the immediate University community, these endowments provide support for faculty research and training experiences for future researchers, which helps create many benefits to society and the world.

"Research by **Ken Johnson**, who is the Paul Berg Professor of biochemistry," Dr. Geoffroy said, "has determined how a new class of AIDS drugs—now in clinical trials—interferes with a key chemical reaction necessary for survival of HIV-1, one strain of the virus believed to cause the disease."

The research suggests that a more powerful and less toxic treatment for AIDS could result from the fusion of these new drugs with the type currently used to treat the disease, such as AZT.

Since 1984, the number of faculty endowments created has increased from 19 to about 160. Listed below are those endowments that have been activated, and for which faculty appointments have been made, as of March 1996.



ENDOWED CHAIRS

Brush Chair in Materials
Randall M. German

Cable TV Pioneers Chair in Cable Television
E. Stratford Smith

Eberly Family Chair in Biology
Robert K. Selander

Eberly Family Chair in Chemistry
Stephen Benkovic

Eberly Family Chair in Mathematics
Jean-Luc Brylinski

Eberly Family Chair in Physics
Abhay Ashtekar

Eberly Family Chair in Statistics
C.R. Rao

William Elliott Chair in Life Insurance
J. D. Hammond

Four Diamonds Chair in Pediatric Oncology
John E. Neely, M.D.

Maurice K. Goddard Chair in Forestry and Environmental Resource Conservation
Caren Glogofsky

Helen A. Guthrie Chair in Nutrition
Barbara J. Rolls

Bernard and Henrietta Hankin Chair in Residential Building Construction
Eric F. P. Burnett

Dorothy Foehr Huck Chair in Nutrition
A. Catharine Ross

Dorothy Foehr Huck Chair in Special Collections
Charles Mann

J. Lloyd Huck Chair in Medicine
Herbert Y. Reynolds, M.D.

J. Lloyd Huck Chair in Molecular and Cell Biology
Anthony E. Pegg

Endowed Chair in Jewish Studies
Baruch Halpern

Drs. Kienle Chair in Humane Medicine
James O. Ballard, M.D.

Robert E. Kirby Chair in Electrical Engineering
Anthony S. Ferraro

William E. Leonhard Chair in Engineering
Richard A. Wysk

John W. Oswald Chair in Surgery
Thomas M. Krummel, M.D.

James R. and Barbara R. Palmer Chair in Telecommunications Studies
Richard D. Taylor

C. Lee Rumberger and Family Chair in Agriculture
Blannie E. Bowen

William A. Schreyer Chair in Global Management Policies and Planning
Fairbroz Ghadar

Frank P. and Mary Jean Smeal Chair in Management Science and Information Systems
Ananataram Balakrishnan

University Chair in Obstetrics and Gynecology
Rodrigue Mortel, M.D.

University Chair in Pathology
Richard L. Naeye, M.D.

Eric A. Walker Chair in Anesthesiology
Julien F. Biebuyck, M.D.

Kenneth B. Waterbury Chair in Secondary Education
Henry Giroux

Verne M. Willaman Chair in Life Sciences
Nina Fedoroff

Verne M. Willaman Chair in Molecular Biology
Robert Simpson



ENDOWED FACULTY FELLOWSHIPS

- Ballantine Memorial Faculty Fellowship in
Pediatric Surgery
Peter W. Dillon, M.D.
- Victor and Anna Mae Beghini Faculty Fellowship
in Petroleum and Natural Gas Engineering
Abraham S. Grader
- Bell of Pennsylvania Endowed Faculty Fellowships
in Telecommunications Technology
Penn State Wilkes-Barre Campus
Harold A. Groff
- Joseph F. Bradley Faculty Fellowship in Finance
James A. Miles
- Bernard R. Brodie Endowment in Pharmacology
Elliot S. Vesell, M.D.
- L. W. "Roy" and Mary Lois Clark Faculty Teaching
Fellowship in Business Administration
Chris Muscarella
- Coopers & Lybrand Faculty Development
Fellowship in Accounting
Jane F. Mutchler
- Corning Faculty Fellowship in Ceramic Science
and Engineering
Carlo Pantano
- Charles H. Fetter University Endowed
Fellowship in Electrical Engineering
James K. Breakall
- Dr. and Mrs. Forney P. George Fellowship in
Family and Community Medicine
James M. Herman, M.D., M.S.P.H.
- Goldman, Sachs & Co. and Frank P. Smeal
University Endowed Fellowship
in Business Administration
J. Randall Woolridge
- Mellon Bank Faculty Fellowship
in Business Administration
Charles P. Snow
- MICASU University Endowed Fellowship
in Mineral Economics
Richard Gordon
- Robert G. Schwartz University Endowed Fellowship
of Business Administration
Arnold Shapiro
- Philip L. Walker Jr. Faculty Fellowship
in Materials Science and Engineering
Andre Boehman
- Quentin E. and Louise L. Wood University
Endowed Fellowship
in Petroleum and Natural Gas Engineering
Turgay Ertekin
- Calvin E. and Pamela T. Zimmerman University
Endowed Fellowship in Business Administration
Kenneth Lush

ENDOWED PROFESSORSHIPS

- Alcoa Professorship in
Solid State Science
Robert E. Newnham
- American Heart Association
South Central Pa. Chapter
Professorship in Medicine
Cardiology
David M. Leaman, M.D.
- Michael and Myrtle Baker
Professorship in Surgery -
Orthopedic
Vincent D. Pellegrini Jr., M.D.
- Irving and Irene Bard
Professorship of Business
Administration
Marvin Goldberg
- Louis R. and
Virginia A. Benzak
Professorship in Finance
Dennis P. Sheehan
- Paul Berg Professorship in
Biochemistry
Kenneth A. Johnson
- Quentin Berg Professorship
in Engineering
and Technology
Charles A. Cole
- Charles G. Binder
Professorship in
Computer Engineering
Tse Y. Feng
- James E. Bobb Professorship
in Rehabilitative Medicine
Edwards P. Schwenker, M.D.
- Boeing Professorship in
Aerospace Engineering
Philip Morris
- Julia Gregg Brill
Professorship in
Women's Studies
Susan Squier
- Centennial Professorship in
Mining Engineering
Christopher J. Bise
- Alvin H. Clemens
Professorship in
Entrepreneurial Studies
David T. Wilson
- Walter J. Conti Professorship
in Hotel, Restaurant and
Institutional Management
*Herman Cain, Michael Hurst,
John Farquharson and
Jackie Trujillo*
- Eberly Family Professorship
in Biotechnology
C. Robert Matthews
- Ernst & Young Professorship
of Accounting
James C. McKee
- Merrell R. Fenske
Professorship in
Chemical Engineering
Albert M. Vannice
- Jane A. Fetter Professorship
in Cardiothoracic Surgery
William S. Pierce, M.D.
- George T. Harrell
Professorship in
Comparative Medicine
C. Max Lang, D.V.M.
- Hershey Foods Corp.
Professorship in Family
and Community Medicine
James M. Herman, M.D.
- Stan and Flora Kappe
Professorship in
Environmental Engineering
James Young
- Robert and Judith Klein
Professorship in Engineering
Gerald Susman
- KPMG Peat Marwick
Professorship of Accounting
Charles H. Smith
- William E. Leonhard
Professorship in Engineering
Christopher R. Wronski
- Liberal Arts Professorship
in East Asian Studies
William J. Duiker
- Liberal Arts Professorship
in Philosophy
John Sallis
- Russell and Mildred Marker
Professorship in Natural
Products Chemistry
Steven M. Weinreb
- David H. McKinley
Executive Education
Professorship in
Business Administration
J. Keith Ord
- Mitani Professorship in
Jewish Life and Literature
Paul Rose
- Paul Morrow Professorship
in Engineering Design and
Manufacturing
Joseph L. Rose
- Francis R. Pentz and Helen
M. Pentz Professorship in the
Eberly College of Science
Roger Penrose
- Ernest C. Pollard
Professorship in
Biotechnology
Donald Bryant
- Harry and Arlene Schell
Professorship in Engineering
Bernhard Tittmann
- Jean Phillips Shibley
Professorship in
Behavioral Health
Elizabeth J. Susman
- Raymond N. Shibley
Professorship in Mathematics
Jerry L. Bona
- Philip H. Sieg Professorship
of Business Administration
Austin J. Jaffe
- Edwin Erle Sparks
Professorship in English
Robert D. Hume
- Edwin Erle Sparks
Professorship in French
Gerald J. Braut
- Edwin Erle Sparks
Professorship in Philosophy
Charles E. Scott
- Edwin Erle Sparks
Professorship in Rhetoric/
Speech Communications
Thomas W. Benson
- Edwin Erle Sparks
Professorship in
Slavic Languages
William R. Schmalstieg
- Edwin Erle Sparks
Professorship in Spanish
Antón González Perez
- Nancy and John Steimer
Professorship in
Agricultural Sciences
Eva Pell
- Earl P. Strong Executive
Education Professorship
in Management
Jerry C. Olk
- J. Franklin Styer Professorship
in Horticultural Botany
Richard Craig
- United Technologies Corp.
Professorship in Acoustics
Steven Garrett
- University Professorship in
Humanities
K. Danner Clouser, Ph.D.
- University Professorship in
Medicine - Gastroenterology
Graham H. Jefferies, M.B.
- University Professorship in
Medicine - Oncology
Allan Lipton, M.D.
- University Professorship in
Pediatrics
Cheston M. Berlin Jr., M.D.



LECTURES

French-American Summer School to be held in June

The annual French-American Summer School on neurobehavioral genetics will be held June 2-13 at University Park. The two-week event, designed to provide basic instruction in quantitative and molecular genetics for beginning scientists, offers a workshop format that includes lectures, practice, student poster displays and informal discussions on the basic quantitative/molecular approaches, as well as recent developments. Faculty and students from many countries are expected to participate.

Since 1994, joint meetings between French and North American scientists in the areas of genetics of behavior and neurobiology have been conducted

to promote collaborative research in these areas. **Byron C. Jones**, associate professor of biobehavioral health and pharmacology and summer school chairman, said researchers in these fields tend to fall into either the "molecular camp" or the "quantitative camp" and often don't communicate with each other. The workshop should bring these two factions together.

The French/American summer school is one of two activities supported by the French and American governments. The other is an annual two-day symposium presented as a satellite meeting at a national or international conference.

Harrisburg panel talk to probe ethics in business

A panel discussion on emerging ethical issues in business and government will be held at noon Thursday, April 25, at the Penn State Downtown Center in Harrisburg. Light refreshments will be provided.

The discussion will highlight how contemporary issues facing those in business and the public sector echo traditional ethical dilemmas and how traditional ethical theories can be applied in new ways to address these issues.

Panelists are **Kurt Parkum**,

associate professor of management, Penn State Harrisburg; **Jeremy Plant**, professor of public administration and public policy, Penn State Harrisburg; and **Glen Mazis**, associate professor of Humanities and Philosophy, Penn State Harrisburg.

The workshop is free to the public, but registration is necessary. To register, call (717) 783-0433. The presentation is sponsored by the Penn State Downtown Center and Penn State Harrisburg's Center for Ethics.

Associate professor to discuss works of two prominent authors at luncheon

Sandra Spanier will speak at the University Women's Club Spring Luncheon at noon Wednesday, April 24, on "Two Prominent Women Writers: Kay Boyle and Martha Gellhorn." Dr. Spanier is currently on *The Hemingway Review* editorial board.

Dr. Spanier, who received a National Endowment for the Humanities Fellowship for 1993-94 to support full-time work editing the collected letters of Kay Boyle, was also guest editor of the quarterly journal *Twentieth Century Literature*, fall 1988 special Kay Boyle issue.

Ms. Boyle, who died in 1992, was a prolific American writer of more than 40 books, novels, fiction, poetry and essays. She was an expatriate in Paris in the 1920s, wrote of the rise of Nazism in Austria in the 1930s and was a foreign correspondent for *The New Yorker*.

Martha Gellhorn, novelist, short story writer and war correspondent, is probably more widely known today in the United States for her marriage to Ernest Hemingway from 1940 to 1945.

Reservations are required by calling (814) 237-7805 by April 19.

E.coli bacteria topic of Stone lecture April 24

Carol Gross, professor of stomatology and microbiology, and vice chair of the Department of Microbiology at the University of California at San Francisco, will present the 1996 Stone Memorial Lecture at 4 p.m. Wednesday, April 24, in 112 Buckhout Laboratory on the University Park Campus.

The lecture, titled "Function and Regulation of Sigma Factors in *Escherichia coli*," is sponsored by the Department of Biochemistry and Molecular Biology. The lecture is free to the public.

Dr. Gross has been on the faculty of the University of California at San Francisco since 1993 and on the faculty of the University of Wisconsin at Madison from 1981 to 1993.

Her research has broadened the understanding of how bacterial genes



Carol Gross

are regulated in response to environmental stress and how stress-response proteins, known as heat-shock proteins, protect bacteria from environmental extremes.

Dr. Gross is a member of the National Academy of Sciences and the American Academy of Microbiology. She has received many honors and awards in research and teaching, including a

National Institutes of Health MERIT award and the 1993 mentoring award from the American Association for the Advancement of Science. She has served as editor of the *Journal of Bacteriology* and as a member of the editorial board of *Genes and Development*.

The Stone Memorial Lecture honors **Robert W. Stone**, head of the former Department of Microbiology for 23 years.

Great Valley site of daylong conference on school reform

A daylong school reform conference, titled "School Reform for an Academically Ready Democratic Society: The Next Century," will be held April 29 at Penn State Great Valley.

The conference, which will feature presentations from education faculty at Johns Hopkins University, Michigan State University and Penn State, will cover topics including

cooperative learning; principles and research; simulation of student teams achievement divisions; cooperative integrated reading and composition; and the cooperative school.

Funding for this conference was provided by a grant from the Commonwealth of Pennsylvania. For information or to register, contact **Elaina McReynolds** at (610) 648-3209. There is no fee to attend.

Professional Management Association to be held at Nittany Lion Inn tonight

Jerry Allen, chief executive officer and owner of Vikimatic Sales Inc., will be a guest speaker for The Smeal College of Business Administration's Professional Management Association at 8 tonight, at the Nittany Lion Inn. He will address issues related to entrepreneurship and the management of high-growth firms. The talk is open to the public.

A supplier to the telecommunications/fiber optics industry, Vikimatic

Sales is based in Wadsworth, Ohio, and has grown from \$10 million in sales in 1992 to \$40 million in projected sales for this fiscal year.

Mr. Allen was selected as "Best Boss in America 1995" in a nationwide contest and has recently made several appearances on national television news programs.

For more information, please contact **Annel Mishra** at (814) 863-0642 or (814) 237-9468.

Learn about parks at Shaver's Creek

Shaver's Creek Environmental Center is presenting a talk by **Chris Reese**, superintendent of Black Moshannon State Park, from noon-1 p.m. Monday, May 13.

He will speak about the management issues of state parks, the appli-

cation of environmental education in the park system and will give an overview of the state of the parks: local, regional and national. The public is welcome to attend. Contact **Linda Block** at (814) 863-2000 for more information.

Faculty and Staff Survey

The Initial Results

In what ways should the University improve? How can Penn State provide an even better education for our students? How can Penn State become a better place to work? Do your values match what the University says it values? Answers to these and similar questions about the relationship between Penn State and its employees are becoming clearer in the results of the recent faculty and staff survey.

The Office of the President commissioned the survey in January. The initial analysis has been completed, and key findings are presented here.

"People form the core of Penn State's strength," says President Graham Spanier. "We are a great university only to the extent that we give our faculty and staff the fullest opportunities to carry out their tasks in a humane work environment. We initiated the survey to determine how well we are succeeding.

"Now we are fulfilling our pledge to share a summary of the survey results. We are grateful to all those employees who participated in the

survey, and we will consider all comments—both positive and negative—very seriously as we seek to ensure that integrity, respect, and compassion for each employee permeate all University policies and decisions."

Survey results show that most of the values the University professes to be important are also important to survey respondents. Similarly, most employees take pride in being part of Penn State and indicate a commitment to the University's progress and success.

The respondents to the survey also reported some significant discrepancies between what they consider important and what they perceive administrators of their unit and the University to value. Likewise, a high percentage of respondents believe that contributions to certain values should be rewarded more, and that other types of contributions should be rewarded less. Many respondents also indicated that communication, cooperation among departments, mutual respect, tools and equipment, and professional development are areas that need to be improved.

"People form the core of Penn State's strength."

Visions and Values Were the Starting Point for the Survey

The 1996 faculty and staff survey was guided by the University Council on Continuous Quality Improvement. The council's vision statement notes that "Penn State will be a place where every single person matters. Employees (faculty and staff) will understand the importance of their role in the organization and feel valued for their contribution to the organization's success." Possible impediments to achieving this goal might be posed by perceived differences between what the University says it values and what it actually recognizes and rewards. The survey aimed primarily to determine the extent of any perceived gaps, as the first step toward resolving them.

The CQI council named a project team to guide the development and implementation of the survey, which was coordinated by the Office of Human Resources. To compile an inventory of Penn State's institutional values, the team used the values section of the college and academic support unit strategic frameworks. The survey asked employees what they valued, what they thought administrators val-

ued, what should be rewarded more, and what should be rewarded less.

The survey also contained twenty attitude items that focused on a variety of issues related to working conditions and job satisfaction. These items dealt with such topics as communication, teamwork, respect, supervisory effectiveness, pride and commitment, client focus, tools and equipment, and training. The survey closed with an open-ended item inviting employees to suggest things that "should be done to make Penn State a better place to work."

The survey was sent in late January to all full-time faculty and staff at all locations except The Milton S. Hershey Medical Center. A total of 12,122 surveys were sent and 5,726 returned for a return rate of 47.2 percent. Some parts of the University responded at higher rates than others, as noted in the table above.

An independent survey research firm, Diagnostics Plus, Inc., analyzed the data. Care has been taken throughout the reporting process to protect the confidentiality of respondents. University officials will never see the raw data from each respondent. Instead, Diagnostics Plus is preparing a University-

Survey Return Rates for Different Subgroups

Males	43%
Females	51%
Executive/administrators	68%
Exempt staff, including managers and directors	60%
Non-exempt staff	54%
Faculty	40%
Technical service	24%
Minority Groups	43%

wide report as well as separate reports for every academic and administrative unit with ten or more respondents. The reports show unit-specific results for the attitudes, values, and rewards sections of the survey. A transcribed copy of open-ended responses is also included in each report.

"How Would You Rate Penn State as a Place to Work?"

One key item on the survey asked respondents to rate Penn State as a place to work. This item was identical to one

asked in a 1988 survey of Penn State employees, providing a good benchmark for the 1996 results. Interestingly, the results from the two years are remarkably similar in showing a positive attitude toward Penn State. In 1988, 56 percent of the faculty said that Penn State was "one of the best" or an "above average" place to work, compared with 58 percent of this year's survey. Sixty percent of the staff responded favorably in both 1988 and 1996. Graph 1 shows the results for 1996.

Commitment and Pride in Penn State

Of the twenty attitude items on the survey, items about pride and commitment prompted the most positive responses. Ninety-seven percent of administrators and executives agreed that they are "committed to Penn State's progress and success," as compared to 90 percent of faculty and staff and 81 percent of the technical service respondents. The item that stated "I am proud to be a part of Penn State" attracted similar levels of favorable responses.

The responses to these items on commitment and pride translate into job loyalty for most but not all people. A significant number of respondents said they are committed to Penn State's progress and success, but, "If I had an opportunity to get another job with equal pay, benefits, and working conditions, I probably would leave." Twenty-six percent of faculty, 36 percent of staff non-exempt, 33 percent of staff exempt, 27 percent of managers and directors, 42 percent of technical service, and 13 percent of administrators and executives agreed with this item.

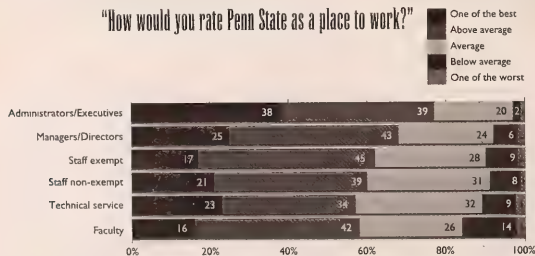
Client Focus

Following commitment and pride, the next most favorable response to the attitude items was whether or not there is a focus on clients of the respondents' departments. A high percentage of employees reported that in their department or unit, "we focus on understanding who our clients are and how we can provide better service to them." (Graph 3)

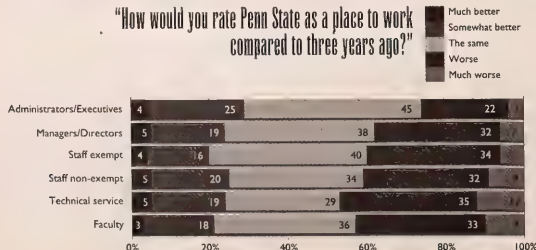
"How Would You Rate Penn State as a Place to Work Compared to Three Years Ago?"

Despite these overall very positive ratings, in response to the question "How would you rate Penn State as a place to work compared to three years ago?" a significant proportion of employees believe that Penn State is a worse rather than a better place to work compared to three years ago. About 40 percent of faculty and staff feel it is a

"How would you rate Penn State as a place to work?"



"How would you rate Penn State as a place to work compared to three years ago?"



worse place to work as compared to three years ago, and about 20 percent believe that it is a better place to work. (Graph 2) The employees who have been at Penn State for a longer period (eight years or more) are more likely than those who have been here for a shorter period of time (three to seven years) to feel that Penn State is not as good a place to work as it was three years ago.

Interpersonal Issues Concern Many Employees

The attitude items that yielded the highest percentage of unfavorable responses dealt with communication between faculty and staff or administration and staff. Other items relating to cooperation among departments and mutual respect also resulted in relatively high levels of unfavorable responses, particularly for staff. (Graphs 4 and 5)

Respect and Commitment

About 30 percent of the survey respondents reported that a sense of mutual respect between faculty and staff and between administration and staff is lacking in their department or unit. An additional analysis indicated that a sense of mutual respect between employees and administrators within a unit is an important predictor of an employee's commitment to Penn State. Without this sense of mutual respect, the probability is lower that a person will have a strong commitment to the University. Items that dealt with communication, teamwork, and respect were closely related to one another, indicating that communication and teamwork may be a necessary foundation for the development of a sense of mutual respect.

Employees Identify Need for Additional Training and Development

Adequate opportunities to participate in training and professional development was a concern for 35 percent of all respondents. They disagreed with the statement, "In my department/unit, we receive the necessary training and professional development to do high-quality work efficiently."

Getting useful feedback from supervisors or department heads is another form of training and development. Thirty-four percent of staff indicated that they did not "get good ideas from the person(s) to whom I report about how to improve my work."

For faculty, the comparable percentage was 44 percent; for technical service employees, 46 percent; for managers and directors, 31 percent; and for administrators and executives, 24 percent.

Of the remaining seven values, some groups of employees rated the values higher than did other groups of employees. For example, administrators/executives and faculty rated "excellence in teaching and instruction" and "excellence in research" higher in importance than did employees in other positions. "Increasing revenue of unit and University" was rated as more important by administrators/executives and managers/directors than by faculty. "Length of service" was rated as more important by technical service and staff non-exempt employees than by employees in other positions.

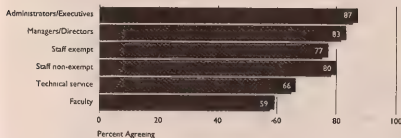
Comparison of Personal Values with Values Attributed to Administrators

In addition to rating their personal values, survey respondents indicated how important these same values seem to be to administrators at different levels. Respondents rated most of the values as more important to themselves than they seem to be to administrators. The five values that showed the biggest gap between what employees said they valued and what they perceived administrators to value are: "individual initiative," "personal and professional development," "creativity and innovation," "intellectual freedom and individuality," and "respect for all employees." Only three values are perceived to be equally or more important to administrators than to respondents: "increasing revenue of unit and University," "excellence in research," and "diversity in employee backgrounds." As Graph 6 on the next page shows, the differences between the self-ratings and the ratings of administrators are smaller for the comparison with department administrators than the comparison with central administrators. The further removed administrators are from the rater, the more different their values are perceived to be.

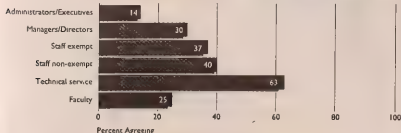
What Should Be Rewarded at the University?

Using the same set of 18 values, respondents were asked to indicate which values should be rewarded more and which should be rewarded less. There was considerable variation among employee groups in the response to this question. But almost 75 percent of managers/directors, staff, and technical service employees agree that "quality of individual job performance" should be rewarded more. Many of the open-ended comments also supported this theme. Respondents regard current rewards for high-quality work as inadequate. Open-

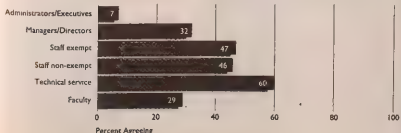
3 "In my department/unit, we focus on understanding who our clients are and how we can provide better service to them."



4 "Communication is poor between faculty and staff in my department/unit."



5 "Communication is poor between administration and staff in my department/unit."



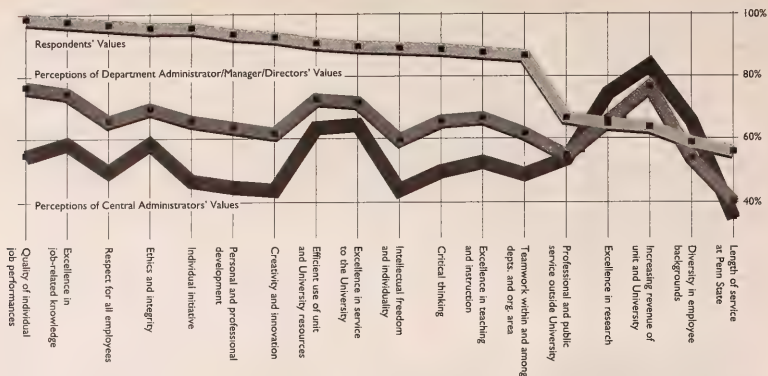
What Are Our Shared Values at Penn State?

What values are most important to faculty and staff? How do faculty and staff perceive the values of administrators? Is there congruence between what the University professes to be important and what is actually rewarded and recognized?

Employees at all levels within the University agree on a common set of values. Most of the values identified in strategic frameworks were rated as being important to a high percentage of employees. More than 80 percent of respondents in all positions said that of the 18 values assessed in the survey, the following 11 values (listed in descending order) are important or very important to them:

- Quality of individual job performance
- Excellence in job-related knowledge
- Respect for all employees
- Ethics and integrity
- Individual initiative
- Personal and professional development
- Creativity and innovation
- Efficient use of unit and University resources
- Excellence in service to the University
- Intellectual freedom and individuality
- Critical thinking

Differences Between Respondents' Values and Their Perceptions of Department and Central Administrators' Values



ended responses suggest that the size and range of annual salary increases may be perceived as an insufficient reward for meritorious performance.

Next to quality of individual job performance, respondents identified "excellence in teaching and instruction" more often than any other value as one that should be rewarded more. For example, 80 percent of faculty indicated that "excellence in teaching and instruction" should be rewarded more.

Employees in different positions said that different values should be rewarded more. Almost all groups selected "teamwork" as a value that should be rewarded more than it currently is. Graph 7 below shows those values that the most respondents from each position thought should be given more rewards.

What Happens Next?

Each academic and administrative unit will receive a report that compares the results for that unit with the total University results. The results for each department within that unit will also be reported separately. Executive Vice President and Provost John Brighton is sending a letter to the heads of all administrative units with their survey reports requesting specific action plans to address the improvement opportunities indicated in each report.

"We want to establish links between the survey data and our strategic planning process," Dr. Brighton says. "Each administrator will incorporate action plans into the short- and long-term strategies for their areas. At every level, the challenge is to identify those issues that,

when properly addressed, will move Penn State closer to our stated vision of being a place where every person matters and every employee understands how he or she contributes something of value to the University's overall success and quality."

The University Council on Continuous Quality Improvement will work with deans and other executives to facilitate the exchange of best practices and to coordinate and implement follow-up activities. The council will "help identify problems that can be addressed through improvements in training opportunities, educational and information efforts, streamlined organizational structures, better evaluation processes, and in other ways," noted Susan Welch, council chair and dean of the College of the Liberal Arts. "Penn State's goal is to reach even

higher levels of quality, and this survey highlights some specific areas where improvements are needed in order to enhance that quality. I believe there is a commitment at all levels of the University to tackle these improvements."

In the fall of 1996, the *Intercom* will publish additional information summarizing survey results and follow-up activities.

"Open communication is essential at all levels of the University," President Spanier notes. "We expect that the survey will precipitate constructive dialogue and tangible improvements throughout the coming academic year."

If you have questions, comments, or reactions to the survey and results, you can participate by sending e-mail to: OHRVAL@OAS.PSU.EDU

What Do Different Groups Say Should Be Rewarded More?

	Teamwork	Creativity	Excellence in teaching and instruction	Individual initiative	Excellence in job-related knowledge	Respect for all employees	Excellence in research
Administrators/Executives	■	■	■				
Managers/Directors	■	■					
Staff exempt	■			■	■		
Staff non-exempt	■			■	■		
Technical Services	■					■	
Faculty		■	■				■

Appointments

Eberly College of Science names director of development

Joanne T. Cahill has been named director of development and alumni relations in the Eberly College of Science. Ms. Cahill works in planning and implementing alumni and fundraising programs and activities.

Ms. Cahill comes to the Eberly College from Penn State's College of Agricultural Sciences. During her seven-year tenure as director of development in the college, total gift income rose 200 percent.

She is a magna cum laude graduate of Neumann College with a bachelor of arts degree. She received a master of arts degree from Regis University.

She succeeds Johnnie D. Ray, who served as the Eberly College's director of development and alumni relations from 1989 until March 1996.



Joanne T. Cahill

Health and Human Development welcomes new director

Maggie Crispell has been named director of development in the College of Health and Human Development. She succeeds Martha Stirling, who stepped down Feb. 29 to spend more time with family and community commitments.

Ms. Crispell, who served as assistant director of development in the College of Health and Human Development since 1993, will work to secure increased private support for the college's academic programs.

A graduate of Wilkes University with a bachelor of science degree in music education, Ms. Crispell has worked at the University since 1974. She held a number of posts in the Office of University Relations and entered the development arena as executive director of constituent relations in 1988.



Maggie Crispell

Bioprocessing Resource Center names new president and CEO

Howard D. Ratcliffe has been named president and chief executive officer of Penn State's Bioprocessing Resource Center Inc. (BRC), one of seven industrial resource centers funded by the Pennsylvania Department of Commerce.

Dr. Ratcliffe, who will join the BRC on May 1, is president of a business and technology consulting company, Gracewood Associates, in Haslet, Mich. He launched Gracewood in 1994. Previously, he was director of business development for Grand River Technologies Inc., the commercialization arm of the Michigan Biotechnology Institute; director of market development for that institute; and product development manager at Biotechnica International Inc., a Massachusetts agricultural biotechnology company.

Born and educated in Britain, Dr. Ratcliffe served as a consultant in Milbrook, England; project leader at Roussel Uclaf in Paris; and program leader at the Kuwait Institute for Scientific Research before coming to the U.S.

A graduate of North East London Polytechnic, he earned his doctorate in fermentation technology and microbial physiology from the University of Wales Institute of Science and Technology while at Shell Research Ltd. He also holds an MBA in marketing and international finance from the Cranfield University School of Management.

He is a member of the Licensing Executives Society and a founding board member of the Michigan Biotechnology Association.

The BRC, based in the University's Research and Technology Transfer Organization, provides facilities and programs to help biotechnology companies become more competitive. Typical projects involve investigating faster, more efficient production technologies; advising start-up firms regarding regulatory compliance or quality control; or conducting pilot plant tests concerning protein purification, fermentation and other product development issues.

Founded in 1988, BRC was incorporated as a nonprofit entity in 1995. The center has headquarters at University Park and is a subsidiary of The Corporation for Penn State.

Associate professor is new executive director of PSSC

Seldon V. Whitaker Jr., associate professor of education and executive director of Penn State's Center for Total Quality Schools, has been named executive director of the Pennsylvania School Study Council (PSSC) effective July 1. Dr. Whitaker replaces Oscar W. Knade Jr., former superintendent of schools in Williamsport, who served as PSSC executive director since 1991.

In his role as executive director, Dr. Whitaker will divide his time between his current assignments and his new post. Founded in 1947, PSSC is a partnership among Penn State and member educational organizations — primarily Pennsylvania school districts and intermediate units. Its mission focuses on improving education by providing research information, professional development activities and technical assistance.

Before joining the Center for Total Quality Schools at Penn State, Dr. Whitaker served as a classroom teacher, a building administrator and superintendent of schools in four school districts in Massachusetts and Pennsylvania. From 1984 to 1994, Dr. Whitaker was the superintendent of schools in the State College Area School District. For the past four years, he has been engaged in the process of introducing K-12 educators to the principles and practices of total quality management in basic education.

As a founding member of the Total Quality Council of Central Pennsylvania, he currently serves on the board of directors of the Pennsylvania Quality Leadership Foundation Inc. and as a regional counselor in the Educational Quality Division of the American Society for Quality Control. Earlier this year, Dr. Whitaker was appointed to the board of



Seldon V. Whitaker Jr.

examiners for the Malcolm Baldrige National Quality Award for 1996.

He earned his bachelor of arts degree at Williams College, his master's degree at the University of Pennsylvania and his doctorate at Northeastern University in Boston. In 1984, he was awarded an honorary doctor of humane letters degree from Williams College. Dr. Whitaker is a member of Phi Delta Kappa and Kappa Delta Phi honorary societies in education as well as other state and national professional organizations.

Extension agent joins Student Affairs as special assistant

Elmore Hunter, Philadelphia County extension agent and director of community relations, has been named special assistant to the vice president for Student Affairs.

Mr. Hunter's expanded duties include serving as staff liaison for the Penn State Philadelphia Resource Center at 4601 Market Street. The resource center houses the Community Recruitment Center, Penn State Cooperative Extension and the new academic program in urban education.

Ms. Hunter also will coordinate events and activities for the Penn State Philadelphia Council, an advisory group for the resource center. He will be concentrating on improving the relationships between Penn State and the city's public, private and parochial schools. Another facet of his new mission will be educating local community and business groups about the Penn State Philadelphia Resource Center and Penn State.

He will continue his present duties, including programming 4-H for Philadelphia County.

Mr. Hunter started his Penn State career as an instructor in the Department of Physical Education at the Abington-Ogontz Campus in 1970. He became an urban youth agent in 1973, and was appointed extension director for Philadelphia County in 1987.

He has a master's degree in adult education from Cheyney State and a bachelor's degree in urban recreational program development from the University of Maryland.

Berks Campus welcomes media relations specialist

Lisa Weidman has joined the Penn State Berks Campus as public information/media relations specialist in the Office of University Relations. She will act as liaison with the media and coordinate all University publications including newsletters, brochures and press releases.

Ms. Weidman is a freelance copywriter and a freelance reporter for *Eastern Pennsylvania Business Journal*, based in Allentown, Pa. She was formerly a freelance correspondent for the *Reading Eagle/Times*.

A 1988 graduate of Kutztown University with a bachelor of science degree in communications and a minor in journalism/public relations, Ms. Weidman was a member of Alpha Epsilon Rho, a national broadcasting society.



Elmore Hunter

The ARTS

AT PENN STATE



"Hallucinations"

Master of fine arts candidate Nancy Brassington's thesis exhibition, "Hallucinations," will be on display at Zollner Gallery on the University Park Campus from Saturday, April 20, through Tuesday, April 30. The exhibition is free to the public.

"The Busy Bodies"

The work of an 18th-century female playwright's creation will be brought to life by Penn State McKeesport theatre arts students for performances on April 18, 19 and 20 at 7:30 p.m. in the Buck Union Building.

"The Busy Body," by Susanna Centlivre, had some 500 performances in the century following its opening in 1709. Jay Breckenridge, associate professor of theatre arts, adapted the play for modern audiences and renamed it "The Busy Bodies."

Tickets are \$2 for adults and \$1 for children under 12. Penn State students with I.D. are admitted free.

"Choreographic Showcase"

The Dance Program, housed in the Department of Exercise and Sport Science in the College of Health and Human Development, will present its annual spring concert, "Choreographic Showcase," at 8 p.m. Friday, April 19, and Saturday, April 20 and Sunday, April 21 at 2:30 p.m. in the White Hall Dance Theatre in 132 White Building on the University Park Campus.

Come and enjoy student and faculty dance works. The performance will feature Orchestra Dance Company and will range in style from jazz to

modern, from lyrical to dramatic.

Tickets are \$6 for general admission and \$5 for students. Tickets will be available at the door.

"Hallucinations" in Zollner Gallery

"Hallucinations," Nancy Brassington's master of fine arts thesis exhibition, will be on display at Zollner Gallery on the University Park Campus from Saturday, April 20, through Tuesday, April 30. A public reception will be held from 7-9 p.m. Saturday, April 27, in the Zollner Gallery. Ms. Brassington is an M.F.A. candidate in the School of Visual Arts painting department.

The exhibition is free to the public.

Blue and White Concert

The Penn State Glee Club will join with the Oriana Singers to present the annual Blue and White Concert at 8 p.m. Saturday, April 20, in Schwab Auditorium on the University Park Campus.

The Oriana Singers, under the direction of Lynn Drafail, is in its premiere season. The two choruses will combine to present Randall Thompson's "Frostiana," settings of seven well-known Robert Frost poems. The Glee Club will perform sea chanteys, drinking songs and American and

Welsh folk songs. Penn State alumni will join the Glee Club in the traditional singing of the Penn State fight songs.

The concert will also include selections by Discantus, a new women's small ensemble. The Hi-Lo's, Penn State's oldest a cappella singing group, continues the tradition of harmony, humor and good cheer in music.

Tickets for the concert are \$6 for the general public; \$2 for students and children, and will be available at the door the night of the concert or in advance from the Eisenhower Auditorium Box Office. For ticket information, contact the Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) ARTS-TIX.

Annual Spring Concert

The Penn State University Choir will present its annual spring concert "The Joy of Singing," at 4 p.m. Sunday, April 21, in the School of Music Recital Hall on the University Park Campus.

The University Choir is the oldest mixed choral ensemble in the School of Music. Tony Leach, instructor of music/music education, is conductor.

Admission is \$4 for adults, \$2 for students, and will be available at the door the night of the concert. For advance ticket information, contact the School of Music Office at (814) 865-0431.

Odyssey Through Literature

On the April 21 episode of Odyssey Through Literature, Leonard Rubinstein speaks with griot Al Haji Papa Bunko Susso and griotte Nakoya Susso about the role of griots in African society.

Mr. Rubinstein discusses the functions of a griot as Professor Tom Hale describes them: "They sing praises of important people, chant epics, compose songs to mark great events, serve as intermediaries in delicate family clan and community negotiations and teach people about the past."

Odyssey Through Literature is produced at WPSX-TV as a continuing education service of Penn State's Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM.

Early Music Ensemble

The Penn State Early Music Ensemble, under the direction of Eric McKee, assistant professor of music, will present a free concert at 4 p.m. Monday, April 22, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The group will perform Renaissance instrumental and vocal works. The ensemble consists of viola da gambas, recorders, crumhorns, vielles and a lute.

Percussion ensembles

The Penn State Percussion Ensembles I and II, under the direction of Dan C. Armstrong, associate professor of music, and Jason Gianni, graduate



BRYCE JORDAN CENTER

Upcoming events

May 4
Royal Hanneford Circus, 10 a.m., 2:30 p.m., 7:30 p.m.
Tickets: \$13/\$11 for adults, \$11/\$9 for children (12 & under).

May 5
Royal Hanneford Circus, 2:30 p.m. & 7:30 p.m.
Tickets: \$13/\$11 for adults, \$11/\$9 for children (12 & under).

May 17
Brooks & Dunn with special guest Tracy Byrd and added guest David Lee Murphy, 7:30 p.m.
Tickets: \$23/\$19.75/\$17.50.

June 14-16
Preview '97 Regional Trade Show
Booths available by calling (814) 863-1541.

June 20
Eagles, 8 p.m.
Sold out.

An updated schedule of events is also available on the Emc2 Bulletin Board, as well as on the Intercom Web site at <http://www.ur.psu.edu/INTERCOM/bjordan.html>.

Coming Soon: The Bryce Jordan Center Web site.

teaching assistant, will perform their annual spring concert at 8 p.m. Monday, April 22, in the School of Music Recital Hall on the University Park Campus.

Performed at this concert will be two compositions commissioned by Richard C. Gipson, director of the School of Music at the University of Oklahoma.

Dr. Gipson received his doctorate from Penn State in 1978. He was recently honored by the College of Arts and Architecture Alumni Board with a 1996 Alumni Achievement Award.

Other works will also be featured. The concert is free to the public.

Outdoor concert

The Penn State Campus Band will present its free outdoor spring concert at 6:30 p.m. Tuesday, April 23, in the courtyard between Music Building I and Music Building II on the University Park Campus.

The Campus Band is conducted by Stacey Phillips and Matt Wagner, graduate students in the School of Music. Miss Phillips is a doctoral candidate in music education and Mr. Wagner is pursuing a master's degree in music education.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, April 19

School of Music, 10 a.m., 15 Music Bldg. Robert Dick hosts composers' forum. A solo flute performance and commentary at 2:30 p.m. in Recital Hall.

Gallery Talk, 2:30 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "An Installation by Betsy Saar."

*Ice Rhythms, 7:30 p.m., Ice Pavilion. Also, April 20.

The Dance Program in Dept. of Exercise and Sport Science, 8 p.m., White Hall Dance Theatre, 132 White Bldg. Annual spring concert, "Choreographic Showcase." Also April 20 and 21. Tickets available at the door.

■ School of Music, 8 p.m., Recital Hall. "Celebration of Diversity" with the Penn State Concert Choir and the Chambers Singers. For tickets, call (814) 865-0432.

Saturday, April 20

Earth Day

Shaver's Creek, 11 a.m.-4 p.m., Earth Day Celebration. Also, April 21. Call (814) 865-2000.

■ Gallery Talk, 2 p.m., Christoffers Lobby, Palmer Museum. Kay Picart on "Asian Art at the Palmer Museum."

Palmer Museum of Art Annual Gala, 6:30 p.m., Penn State Scanticon. "The Roaring Twenties." For reservations, call (814) 865-7572.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. David Rousseau/REALITY "Whispers of Angels." For tickets, call (814) 863-0255.

School of Music, 8 p.m., Schwab Auditorium. Penn State Glee Club and Oriana Singers Concert. For tickets, call (814) 863-0255.

Sunday, April 21

School of Music, 4 p.m., Recital Hall. Penn State University Choir. For tickets, call (814) 865-0432.

Monday, April 22

■ Latino Food Festival, 11 a.m.-5 p.m., Paul Robeson Cultural Center. Admission is \$5.

■ Comparative Literature Luncheon, 12:15 p.m., 101 Kern. George Enten on "Russian Literature Versus Left Consciousness."

School of Music, 7 p.m., Eisenhower Chapel. Early Music Ensemble.

School of Music, 8 p.m., Recital Hall. Penn State Percussion Ensemble.

Tuesday, April 23

Happy Valley Toast Masters, noon, Redifer Commons. Noon club meeting.

Faculty Senate meeting, 1:30 p.m., 112 Kern.

School of Music, 6:30 p.m., Music Bldg. Courtyard. Penn State Campus Band. Rain date: April 25.

Center for Adult Learner Services, 8-8 p.m., 205 Shields Bldg. "Student Aid: Making Money Stretch" program. Continues noon-2 p.m. April 24. For information call (814) 863-3887.

Christian Faculty/Staff Fellowship spring banquet, 6:30 p.m., Mars room, Johnson Commons. Rae Mellichamp, speaker. To register send \$17.50/person to Emory Ensore, 207 Hammond Bldg.

Nittany Valley Symphony, 8 p.m., Eisenhower Auditorium. "Nature Awakens," with Grief's Piano Concerto featuring Carl Blake, guest soloist. For tickets, call (814) 863-0255.

Wednesday, April 24

School of Music, 7 p.m., HUB Ballroom. Penn State Concert Band.

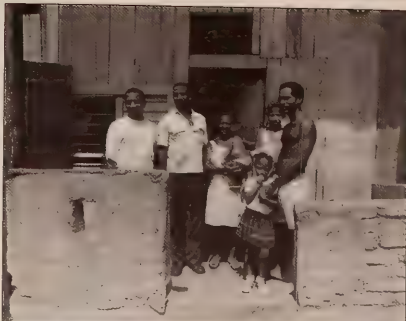


Photo exhibition

"Family Photo" and other photographs by Greg Grieco will be on display on the Kern Panels in Kern Building on the University Park Campus through May 12. The exhibition is based on a 1994 trip to Cuba and illustrates life in that country.

School of Music, 8 p.m., Recital Hall. Student Composer's Concert.

Thursday, April 25

Commission for Women's Take Our Daughters to Work Day. To register, call (814) 865-1663.

Bach's Lunch Concert, 12:10 p.m., Eisenhower Chapel. The Penn State Flute Ensemble.

■ Gallery Talk, 2 p.m., Christoffers Lobby, Palmer Museum. Glenn Williamson on "Sebastião Salgado and Workers."

Visual Arts Lecture, 3 p.m., Palmer Upton Auditorium. Andrea Gill, ceramist, will speak on her work.

Saturday, April 27

Shaver's Creek, 10 a.m. Picture Perfect Walk. Call (814) 865-2000.

Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "An Installation by Betsy Saar."

SEMINARS

Friday, April 19

Accounting, 3:30 p.m., 333 Beam BAB. Paul Healy on "Do Firms Benefit from Expanded Voluntary Disclosure?"

Geography's Coffee Hour, 4 p.m., 26 Hosler. President Graham Spanier, "An Informal Conversation with the President."

Philosophy, 4 p.m., 218 Willard. Dimitri Ginev on "Variants of Hermeneutic Philosophy of Science."

Monday, April 22

Center for Gravitational Physics and Geometry, 3:30 p.m., 109 Bouckle Bldg. Valeri Frolov on "Black Hole Entropy: Off-Shell vs. On-Shell."

Physics, 3:30 p.m., 339 Davey Lab. Talat Rahman on "The Role of Vibrational Entropy in Structural Phase Transitions."

Institute for High Performance Computing Applications, 3:35 p.m., 215 Hammond Bldg. Youcef Saad on "Solving Large Sparse Regularly Structured Linear Systems on Clusters of Workstations."

Tuesday, April 23

Chemical Engineering, 10 a.m., Paul Robeson Cultural Center Auditorium. Dennis

Hess on "Vapor Phase Cleaning for Electronic Materials Device Fabrication."

Geosciences, 3:30 p.m., 112 Walker. Doug Erwin on "The Cambrian Radiation."

M.E. John Memorial Lecture, 3:30 p.m., Eisenhower Chapel. Walter Coward on "Rural Poverty in the United States: A Comparative Perspective."

Ecology, 3:45 p.m., 107 Warik. Denise Wardrop on "Sedimentation Rates in Pennsylvania Wetlands Along Hydro-geomorphic and Disturbance Gradients."

Biology, 4 p.m., 8 Mueller Lab. Allen Orr on "The Genetics of Speciation: Recent Progress."

Wednesday, April 24

■ International Programs, 9:30 a.m., 222 Bouckle Bldg. Steve Mabeza on "South African Education for Empowerment: A Plan for the Future."

Stone Memorial Lecture in Biochemistry and Molecular Biology, 4 p.m., 112 Buckhout Lab. Carol Gross on "Function and Regulation of Signa Factors in Escherichia coli."

Architectural Engineering Consortium for the Advancement of Building Sciences, 7 p.m., Colonial Room, Nittany Lion Inn. Leonard Joseph on "Engineering the World's Tallest Building—Petronas Tower, Kuala Lumpur, Malaysia."

Thursday, April 25

Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. William Krivan, speaker.

Physics, 3:30 p.m., 101 Osmond Lab. Rajarshi Roy on "Coupled Optical Oscillators: Coherence, Chaos, and Control."

Ecology, 3:45 p.m., 108 Warik. Peter Cullin on "Making Sense of the Literature: A Case Study in the Use of Meta-analysis for Integrating Ecological Research."

Friday, April 26

Physics, 2:30 p.m., S-5 Osmond Lab. K. B. Whaley on "Clusters: From Nanocrystals to Superfluids."

Ecology, 3:35 p.m., 101 ASI. Chad Bucklew on "Community Structure and Productivity of a Naturalized Pasture Under Six Management Schemes."

Geography's Coffee Hour, 4 p.m., 206 Walker. James W. Darling on "Becoming Canadian: What Manitoba's Grievances Tell Us About the Assimilation of Ethnic Communities."

CONFERENCES

Friday, April 19

R. Hady Waters Logistics and Transportation Symposium, Penn State Scanticon. Joseph C. Andraski on "Logistics Leadership: Developing Relationships with Senior Management." For information, call (814) 865-1866.

Logistics Transportation Symposium, The Penn State Scanticon.

Saturday, April 20

*Challenges and Achievements, 8:30 a.m.-2 p.m., Classroom Bldg. For more information, call Women in the Sciences and Engineering at (814) 865-3342.

Sunday, April 21

Penn State Green Design Conference, 10 a.m.-3:30 p.m., Cafe Laura, Mater Bldg. For information, call (814) 863-7688.

Monday, April 22

■ Multicultural Summit 1996, The Nittany Lion. Through April 23.

Tuesday, April 23

Better Process Control School, Nittany Lion Inn. Through April 26.

Scale-Up Strategies for Animal Cell Culture, 8:30 a.m., Fear Lab. Through April 26. To register, call 1-800-PSU-TODAY.

Positioning Ourselves for the Way Things Will Be, The Penn State Scanticon. Child and Adolescent Service Systems Program, The Penn State Scanticon. Through April 26.

Scale-Up Strategies for Animal Cell Culture, The Nittany Lion Inn. Through April 26.

Friday, April 26

■ Indigenous Knowledge 1996, The Nittany Lion Inn. Through April 27.

Statewide Future Problem-Solving Program, Days Inn. Through April 27.

History and Philosophy of Mathematics, The Penn State Scanticon. Through April 29.

EXHIBITS

HUB

Art Alley Panels and Cases:

Central PA. Scholastic Art Competition, through May 12.

Three Ring Circus, a three-man sculptural exhibit. Through May 3.

Kern

Kern Panels:

■ Greg Grieco Photography. Based on a 1994 trip to Cuba and illustrates the life of the people there. Through May 12.

Kern Cases

Diane Maurer Marbled Paper: collages, books and wearable art. Through May 12.

Palmer Museum

■ "Betsy Saar: Tangled Pools," through July 21.

■ "Workers: An Archaeology of the Industrial Age: Photographs of Sebastião Salgado," through June 9.

Pattee

Lending Services Gallery and West Lobby gallery.

Spectrum, student art work. Through April 30.

Zoller Gallery
MFA Exhibition-Nancy Brassington, April 20 through April 30.
MFA Exhibition-David Pier, April 24 through April 30.

■ Reflects an international perspective

Arts

continued from page 14

Carl Blake to perform

When the Nittany Valley Symphony takes the stage at Eisenhower Auditorium at 8 p.m. Tuesday, April 23, Maestro Jinbo will end the NVS season with one of classical music's most famous opening chords—those of the Grieg Piano Concerto. Joining the orchestra as guest soloist is Carl Blake.

A well-traveled concert artist, Dr. Blake has performed throughout the United States and in France, England and Jamaica. He has appeared at Carnegie Hall on several occasions in solo and joint recitals.

Dr. Blake is associate director of the Institute for the Arts and Humanistic Studies and assistant professor of music at Penn State.

Tickets are available at Eisenhower Ticket Center. For more information, call (814) 863-0255.

M.F.A. exhibit

David A. Pier's master of fine arts thesis exhibition will be on display at Zoller Gallery on the University Park Campus from Wednesday, April 24, through Tuesday, April 30. A public reception will be held from 7-9 p.m. Saturday, April 27, in the Zoller Gallery. Mr. Pier is an M.F.A. candidate in the School of Visual Arts.

The exhibition is free to the public.

Penn State Concert Band

The Penn State Concert Band will present its 20th annual spring concert at 7 p.m. Wednesday, April 24, in the Ballroom of the Hetzel Union Building on the University Park Campus.

The band is conducted by O.

Richard Bundy, associate professor of music education and associate director of bands in the School of Music. He will be assisted by Stacey Phillips, a graduate assistant in the School of Music.

The concert is free to the public.

Student composers' concert April 24

A free concert of new works by Penn State student composers will be held at 8 p.m. Wednesday, April 24, in the Recital Hall of the School of Music Building on the University Park Campus.

The concert will feature works for orchestra, chamber ensembles and electronic media by students of Penn State composition teachers Paul Barsom and Bruce Trinkley.

Bach's Lunch

The Penn State Flute Ensemble will perform at the Bach's Lunch concert at 12:10 p.m. Thursday, April 25, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The free 20-minute concert is part of the Bach's Lunch series sponsored by the School of Music and University Lutheran Parish.

The 14-member Flute Ensemble is under the direction of Eleanor Duncan Armstrong, associate professor in the School of Music, and Jeanne Provan, a graduate teaching assistant and flute performance major.

The audience may take a brown-bag lunch to eat in the Roy and Agnes Wilkinson Lounge after the performance. Coffee and tea will be provided.



Exhibition

Marbled papers by Diane Maurer will be on exhibit in the Kern Cases on the University Park Campus through May 12.

"Three Ring Social Circus"

The HUB's Formal Gallery will feature "Three Ring Social Circus," a three-man sculptural exhibit through May 3. Hirotsune Tashima, a native of Japan, acquired his MFA in ceramics at Alfred University in New York. Mr. Tashima has exhibited his work all over the U.S. and overseas and has won many awards including awards in Crafts National and Images 95.

Quentin Olson received his BFA in general sculptural studies at the Maryland Institute College of Art and his MFA at the University of Delaware. Mr. Olson has exhibited in the United States in galleries including the Notorious Artist Guild in Baltimore, Md., The Maryland Institute, College of Arts and New Works Gallery in Delaware.

Steven R. Erickson received his BFA at Mankato State University, Mankato, Minn., and his MFA from

The University of Delaware. Mr. Erickson is a member of the National Council for the Education of Ceramic Artists. He also has exhibited various places in the United States including Mankato University, Rochester Art Center and the Hollingworth Ceramic Complex at the University of Delaware.

Kern exhibit

The Kern Cases will feature the work of Diane Maurer through May 12.

Diane Maurer's marbled papers have been exhibited in galleries and museums in the United States, France, Sweden and Holland. Her work is represented in the collections of the Cooper-Hewitt Museum, the Nelson-Atkins Museum and the Dutch Royal Library.

She is author of *An Introduction to Carragenean & Watercolor Marbling*, 1984, Marbling, Random House, 1991, and *Decorative Paper*, Doubleday, 1993.

News in Brief

Christian Faculty/Staff Fellowship spring banquet April 23

The Penn State Christian Faculty/Staff Fellowship will hold a spring banquet from 6:30 to 9 p.m. Tuesday, April 23, in the Mars room of Johnston Commons on the University Park Campus.

The speaker will be Rae Mellichamp, of Christian Leadership Ministries and former professor at the University of Alabama, along with his wife, Peggy. The cost is \$17.50 per person. To register, send your name(s) and registration fee to Enory Ensore, 207 Hammond Building. Make checks payable to "Penn State Christian Faculty/Staff Fellowship."

Student aid program

The Center for Adult Learner Services is sponsoring a program titled "Student Aid: Making Money Stretch" from 6-8 p.m. Tuesday, April 23, and from noon to 2 p.m. Wednesday, April 24, in 205 Shields Building. Areas to be covered include:

- The application process (FAFSA form) and deadlines
- Financial aid sources (grants, assistantships, loans and scholarships)
- Cost of attendance

- Personal budget
 - Reviewing assets and liabilities
 - Cost-savings tips
 - Hidden income sources
- Jim Fay, financial planner, and Ro Nwranaki from the Office of Student Aid will give the presentation.

If you are interested in attending or would like more information, please contact the Center for Adult Learner Services at (814) 863-3887 or stop by 323 Bouck.

"Surfing the World Wide Web"

Gerry Santoro will discuss "Surfing the World Wide Web" at the Tuesday, May 21, public meeting of Professional Women at Penn State.

The brown-bag lunch meeting will begin at 11:50 a.m. in 201 Classroom Building with an opportunity for informal networking.

Dr. Santoro holds two positions at Penn State: lead research programmer at the Center for Academic Computing and assistant professor in the Department of Speech Communication. He holds B.S. and Ph.D. degrees from Penn State.

Professional Women at Penn State is a grassroots organization coordinated by University

women in which participants can develop and maintain a communications network and serve as a resource for other Penn States. This group welcomes attendance by all people without regard to an individual's gender or employee/student classification at the University.

HRDC course

The following course is being offered by the Human Resource Development Center. To register for the course, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

To see a list and description of other courses available, check the HRDC course catalog or log-in to the *Intercom* Web site from the home page of the Office of University Relations at URL <http://www.ur.psu.edu>.

The Keys To Productive Meetings (PRO 016)

This program provides current and prospective meeting leaders with tools and methods to ensure efficient use of meeting time. This program meets for two sessions, from 8:30-11:30 a.m. Tuesday, May 7, and Thursday, May 9, in 504 Agricultural Sciences and Industries Building; cost: \$55.

Alumni give University high marks in survey

By ALAN JANESCH
Public Information

Penn State alumni are very satisfied customers. That's the clearest message from graduates who earned bachelor's degrees in 1992-93 and 1989-90, according to preliminary results of a survey undertaken in November 1995 by the Office of Undergraduate Education.

Eighty-three percent of the respondents rated their satisfaction with a four or a five on a five-point scale, a response viewed as strikingly positive. "Another striking result was the consistency of the responses across different groups," said Michael J. Doors, director of academic assessment, who did most of the work on the survey. "For example, on the scale ranking satisfaction, all groups of alumni surveyed — regardless of college, year of graduation, gender or ethnic background — gave Penn State at least a 4.0."

Surveys were mailed to nearly 3,000 alumni, and more than 30 percent responded. Of those, 85 percent included open-ended comments that are still being analyzed.

For more information

Highlights of the alumni survey on educational outcomes are available through the Office of Undergraduate Education's Web site at <http://www.psu.edu/academic/ufue.html>.

From there, click on the highlighted text in the paragraph — under the row of hot buttons at the top of the page — that describes the responsibilities of the vice provost and dean for undergraduate education.

The alumni also gave the University high marks for helping them understand particular fields or disciplines, scientific approaches and the arts, sciences and humanities.

The University got ratings that were lower, but still above the mid-point, for helping alumni learn to use computers and information technology; write and speak effectively; make moral decisions; and make logical, rational judgments.

However, despite the overall high level of alumni satisfaction, some problems were identified. For instance, Penn State received marginal or low marks for helping the alumni understand a foreign language, function across international boundaries, function in a culturally diverse society, understand and appreciate aesthetics and enhance personal and community health.

"Strictly speaking, this was not a general education survey," James Rameau, associate dean for undergraduate education, said. "But the survey was based in part on input from the University's general education assessment team, and we hope that the results of the survey will help us determine the important goals of an undergraduate education at Penn State and make us more effective in helping our students achieve those goals."

Recently, the University Faculty Senate created a special committee to assess and possibly recommend changes to Penn State's general education program (*Intercom*, March 28). The last of the group's five full committee meetings is scheduled for 3 to 5 p.m. on April 24 at the Nittany Lion Inn, with an open forum portion of the meeting set to begin at 4 p.m.

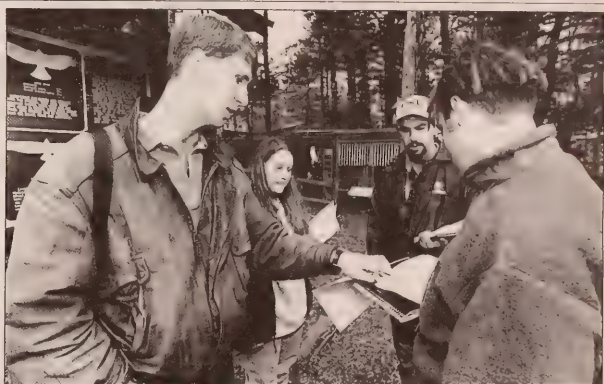
Positions set for trustees on alumni ballots

Ballot positions for the 1996 election of trustees by alumni have been determined by a drawing, a procedure established by the Board of Trustees.

Ballots for the trustee election have been mailed to Penn State alumni. All ballots must be returned to the trustees office by the close of the election at 9 a.m. Thursday, May 9.

The names of the candidates for three positions on the board to be elected by alumni, and the order in which each will appear on the ballot, are as follows:

- Philip J. Marrie Jr., '63, president of Integra Bank of Sharon, Hermitage.
- Mary G. Beahm, '81, '87, senior international human resources representative at the Westinghouse Energy Center, Pittsburgh.
- H. Jesse Amelle, '55, attorney with Amelle, Hastie, McGee, Willis and Green, San Francisco, Calif.
- Joel N. Myers, '61, '63, '71g, president of Accu-Weather Inc., State College.
- Mark J. Tygel, '71 owner, The Rah Rah Co., State College.
- Stephen M. Hladik, '89, Pennsylvania deputy attorney general, Lititz.
- Martin D. Cohen, '64, attorney with Cohen, Feeley & Ortwein, Easton.
- Louis G. Galliker, '56, president of the Galliker Dairy Co., Johnstown.
- Alvi O. Voigt, '55, '57g, professor emeritus of agricultural economics, The Pennsylvania State University, State College.



Checking it out

Instructor Hans Vogelsong, left, and students including Tammy Etris, second from left, Scott Stewart and Jarrod Kreisler review specifications for complying with requirements of the Americans with Disabilities Act at the Shaver's Creek Environmental Center's Raptor Center.

Photo: Greg Grieco

Agenda ready for Faculty Senate meeting

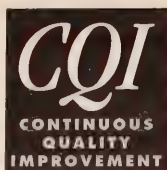
The University Faculty Senate will meet at 1:30 p.m. Tuesday, April 23, in Room 112 Kern Graduate Building on the University Park Campus.

Items to be addressed include:

- Curriculum report of April 11.
- Modification of Senate Policy 57-00 — re-enrollment with academic renewal (legislative)
- Change in general education legislation (legislation)
- Revision of procedures on faculty rights and responsibilities (legislative)
- Revisions of immediate tenure (advisory/consultative)
- Admission of advance standing transfer students (informational)
- Changes in the general education implementation guidelines (informational)
- Report on audio/visual services — 1996 (informational)
- Report on inter-and intra-library loan services (informational)
- Research Park Phase A-1 financial update (informational)
- Special committee on faculty compensation (oral informational)

- University Planning Council — update (informational)

Members of the University community are invited to attend this meeting. Any member of the University community who is not a member of the Senate may request the privilege of the floor on any item of business already before the Senate. Such a request must be made to the chair, through the executive secretary of the Senate, at least four calendar days before the meeting at which the individual wishes to speak.



The Challenge of Change

University presidents, deans from colleges of engineering and business, directors of quality improvement centers and corporate executives met at the annual meeting of Total Quality Forum, a consortium of 42 universities and 20 companies practicing TQM/CQI, in Pittsburgh.

John Brighton, executive vice president and provost, and **Louise Sandmeyer**, executive director, CQI Center, represented Penn State in a panel discussion, "Applying TQ to Academic Processes."

President **Graham B. Spanier**, spoke to university presidents, chancellors, provosts and trustees about "Answering the Critics: Effective and Essential Communication of Vision, Mission and Goals."

David Wormley, dean of the College of Engineering, and **John Bollinger**, engineering dean at the University of Wisconsin-Madison, spoke about "Faculty Performance Rewards in a Quality Environment." Dean Wormley indicated that future promotion and tenure decisions in the College of Engineering will:

- increasingly illustrate a balance between teaching and research
- explicitly include team efforts in teaching
- explicitly include diversity activities
- include indication of efforts to improve past weaknesses.

Also representing Penn State at the forum was **Jack Matson**, director, Leonhard Center for the Enhancement of Education, who presented information about linking the TQ approach to new learning methods.

The forum was hosted by Duquesne, Carnegie Mellon and the University of Pittsburgh.

The 1997 Total Quality Forum will be held in the spring at Georgia Institute of Technology.

For more information about Continuous Quality Improvement, please contact **Louise Sandmeyer**, executive director of the CQI Center, at (614) 863-8721, or e-mail les1@psu.edu.

Eleven earn research fellowships for arts and humanistic studies

The Institute for the Arts and Humanistic Studies has announced its faculty research fellowships for July through December.

The recipients are as follows:

■ **Santa Casciana**, assistant professor of Italian, who will study the relationship between popular preaching and high literary culture in the Middle Ages;

■ **Patrick G. Cheney**, associate professor of English and comparative literature, who will do research on the "poetic revival" in the English Renaissance;

■ **Benjamin T. Hudson**, assistant professor of medieval history, who will study the economic, cultural and political development of the North Atlantic littoral;

■ **Darla Lindberg**, assistant professor of architecture, will travel to three palliative care sites for a journal article and future interdisciplinary collaborations;

■ **Daniel J. Nadenicek**, assistant professor of landscape architecture, will visit the H.W.S. Cleveland collections to catalog plans, photographs, drawings, letters and documents for an electronic archive.

■ **William L. Petersen**, associate professor of religious studies, who will research the origins of scholarship on Judaic Christianity;

■ **John D. Powell**, assistant professor of history at Penn State Erie, The Behrend College, who will complete research leading to the publication of "Kimberley's Journal;"

■ **Charles S. Prebish**, associate professor of religious studies, who will do research for part two of a book on the practice and study of Buddhism in America;

■ **Timothy P. Shafer**, associate professor of music, will perform Brahms piano sonatas at Carnegie Hall's Weill Recital Hall;

■ **Jean-Claude Vuillemin**, associate professor of French, will do research for the first critical edition of Jean Rotrou's inaugural play, "L'Hypocordracque ou Le Mort amoureux;"

■ **Brannon Wheeler**, assistant professor of history and religious studies, will prepare a translation and edition of the "Mukhtasar," an important Islamic legal text of the 11th century.

This month marks final leg of statewide tour

President **Graham B. Spanier's** statewide tour is winding down this month with the final two stops on his 25-site tour that took him across the Commonwealth.

Today, the Abington Ogontz Campus will host a visit from the University's leader, while April 24 marks the date for his final stop in Williamsport at the Pennsylvania College of Technology.

The president has no plans to slow down in the coming year. In May, Dr. Spanier plans to take a busload of new faculty around the state for a two-day whirlwind tour.

FAST FACTS ABOUT ABINGTON-OGONTZ CAMPUS

Founded: 1950

Service area: The Philadelphia five-county region.

CEO: Karen Wiley Sandler

Employees: 130 full-time, approximately 20 part-time employees

Enrollment: 3,212

Key programs: Offers bachelor's degrees in science, administration of justice, American studies, integrative arts and letters, arts and science; also offers the first two years of most of the 180 baccalaureate degrees offered by Penn State.

FAST FACTS ABOUT PENN COLLEGE

Founded: 1989. Predecessors were Williamsport Area Community College (1965) and Williamsport Technical Institute (1941).

Service area: 10-county surrounding area, plus out-of-state draw.

President: Robert L. Breuder

Employees: 582 full-time, 519 part-time employees

Enrollment: 4,728

Key programs: Offers 19 baccalaureate degrees, 68 associate degrees and 14 certificates in areas such as: aviation technology/ avionics technology, business administration, construction management, dental hygiene, and plastics and polymer technology. Penn College's main campus is in Williamsport.

Other campus sites include the Aviation Center, at the Williamsport-Lycoming County Airport in Montoursville; the Earth Science Center, in Allenwood; and the North Campus near Wellsboro.

Private Giving

Rare German bible donated to University

A rare German bible, printed in 1743 by Christoph Saur of Germantown, Pa., has been donated to the Max Kade German-American Research Institute at University Park, a gift from the Foreign Office of the Federal Republic of Germany and the German Research Foundation.

Long recognized as the first bible in a European language to be printed

in North America, the text was taken from the 34th edition of the Luther translation. An English language bible was not printed in America until after the Revolutionary War in 1782.

This significant work is considered a masterpiece of the printer's craft and is the same bible donated by the U.S. government to the Gutenberg printing museum in Mainz, Germany,

when it was rebuilt after World War II. In addition to the Saur bible, 60 books in the field of German-American studies also were donated by the German Alliance for Research to the institute.

The gifts were presented by Consul Thomas Meister of the German Consulate General in New York during a recent visit to the campus.

In January you resolved to exercise more — are you still at it?

By GARY W. CRAMER
Public Information

Many new and returning exercisers floundered early in their attempts to stick to New Year's resolutions regarding fitness goals. That being the case, fulfilling realistic resolutions without getting swamped by life's many distractions might be as psychologically rewarding as the exercise is physically rewarding.

An article in the *Penn State Sports Medicine Newsletter* suggests that as many as half of the people who begin an exercise program drop out within six months. Even dedicated exercisers may get temporarily or permanently sidetracked by sudden changes in their personal circumstances.

David Yukeison, a sports psychologist and member of the newsletter's editorial board, describes some of the forces working against exercisers at all levels.

"Most exercisers are committed," Dr. Yukeison says. They set goals and they take pride in the accomplishment of sustaining an exercise program. Setting realistic goals is very important.

"While beginning exercisers frequently try to do too much too quickly, some veterans spend too much



David Yukeison, a sports psychologist and member of the *Penn State Sports Medicine Newsletter*, offers tips to keep you exercising.

Photo: Greg Grieco

time trying to achieve goals that are not consistent with their age, available time or responsibilities. Each person has to settle into a pro-

gram that is reasonable in terms of frequency, duration and intensity."

Dr. Yukeison also advises that programs be

individualized according to the activities the exerciser enjoys, since no one is likely to continue doing something they consider oppressive, regardless of the health benefits. If the individual does not enjoy jogging, cycling or swimming, alternative exercises can still be found.

Furthermore, support from spouses, family and peers leads to adherence. People are more likely to make exercise a habit when they have partners or colleagues who agree on its importance than would otherwise be the case.

Other barriers to fitness goals include time, travel, expense, facilities and work demands, but despite it all, exercise should be scheduled or it might never happen. Travelers can look for hotel, public or club facilities in the cities they are visiting. If the cost of joining a health club is prohibitive, exercisers can look into lower cost memberships at YMCA, YWCA, college or church facilities.

Understanding the benefits of starting or continuing an exercise program is a good first step, but Dr. Yukeison suggests that getting past the intellectual preliminaries and focusing on the program itself makes a big mental difference. Holding firm to one's resolve for more than six months could make exercise a lifelong habit.

Motherly moms misperceive their daughters' behavior

No matter how old they get, moms and daughters play familiar roles.

A study of 48 pairs of older mothers and their middle-age daughters suggests that when the two disagree, the moms perceive the conflict in a more positive light than do the daughters. The moms also think the daughters feel better about the conflict than is actually the case.

"Even when daughters say they are upset with their mothers, the mothers report the conflict with a positive glow," Karen Fingerman, assistant professor of human development, said.

"The fact they're old doesn't change the reality that moms still act like moms and daughters still act like daughters, and that the perceptions of each remain the same during disagreements," she said.

"The study shows that even in good relationships, there are still problems," Ms. Fingerman said. "But the study also shows that you don't have to resolve all those problems or push to get the other person to see your perspective. It may be more important that there be a willingness to accept that the two of you won't see things the same way and that mom will see things more positively."

Moms in the study are primarily in their 70s, while their daughters are primarily in their 40s. Ms. Fingerman conducted the study as a graduate researcher at the University of Michigan.

Because the study's focus is narrow, Ms. Fingerman said her findings cannot be generalized to other segments of the population or to other cultures.

Researchers receive grant to study sexually transmitted diseases

The National Institute of Allergy and Infectious diseases awarded investigators at The Hershey Medical Center a four-year, \$2.2 million, major program project grant to study microbicides, or germ-killers, active against a variety of sexually transmitted diseases. The researchers will use a novel system that allows growth of disease-producing microbes in natural human tissues and will study the molecular mechanisms by which topical microbicides prevent the transmission and growth of sexually transmitted diseases. The project promises to have a major impact on sexually transmitted diseases and genital cancer development in women.

According to program director John Kreider, the organisms to be studied include the herpes simplex virus, human immunodeficiency virus (AIDS virus), human papillomavirus and chlamydia.



nary, multi-institutional grant includes investigators from the departments of pathology and microbiology and immunology at Hershey. It also involves subcontractors with investigators at The University of Pennsylvania and the University

of North Carolina and represents a major collaboration between academic science and industry, including arrangements with BioSyn, Inc., a Philadelphia-based biotechnology company.

In addition to Dr. Kreider, who is professor of pathology and of microbiology and immunology, chief of experimental pathology and director of the Jake Gittelman Cancer Research Institute, the research team includes Neil D. Christensen, assistant professor of microbiology and immunology; Mary K. Howett, professor of microbiology and immunology; Judith Weisz, professor of obstetrics and gynecology; Brian Wigdahl, professor of microbiology and immunology; Daniel Malamud, professor of biochemistry at the University of Pennsylvania; and Priscilla B. Wyrick, professor of microbiology and immunology at the University of North Carolina.



Macintosh System 7.5 update

Apple has announced their System 7.5 Update 2.0, which is a comprehensive set of system software enhancements designed for all Macintosh computers. This important update offers new functionality, as well as enhanced system performance. And it significantly improves the overall reliability of Macintosh and MacOS-compatible computers running System 7.5, 7.5.1 or 7.5.2.

To find out memory requirements needed for your computer to take advantage of the upgrade, contact MOC at (814) 865-2100.

System 7.5 Update 2.0 is available electronically on Penn State's ftp site (<ftp:cac.psu.edu>) and on Apple's ftp and World Wide Web sites (<ftp:info.apple.com>, <ftp:support.apple.com>, <http://www.info.apple.com> and <http://www.support.info.com>).

Lotus ScreenCam 2.0 for Windows

ScreenCam 2.0 is a fast and inexpensive way to present, educate and communicate when you can't be there in person. ScreenCam turns your PC into a VCR that records every click, scroll and action on your screen. Plus you can add a soundtrack and create captions. Then edit your instant PC movies and share them with others—even those who don't have ScreenCam.

Requires Windows 3.1, DOS 3.3 or higher. Now available at the Microcomputer Order Center.

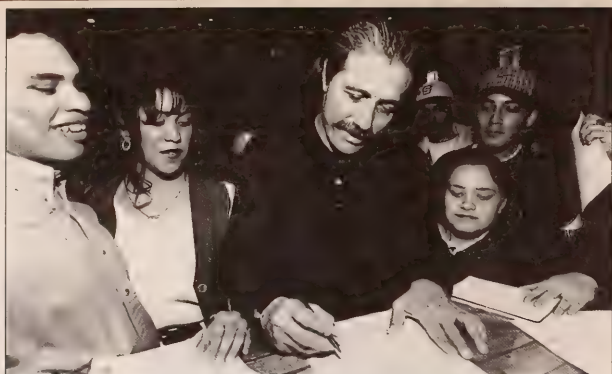
FREE DEMO: You can download the Lotus ScreenCam Player and view some demo ScreenCam movies right on your desktop! Visit: <http://www.lotus.com/info/scmpg.htm>

New shipping charges

Due to rising costs, the MOC enacted the following shipping charges for personal orders sent UPS. In addition, items will only be shipped to eligible Penn State purchasers at non-University Park locations.

Shipping prices are per order. Please use largest item on order to calculate charge:

\$5 software and accessories; \$10 printers (inkjet and laser), scanners and notebooks; \$30 systems and monitors; and \$5 extra out-of-state shipping charge.



Famous visitor

Edward James Olmos, center, signs autographs during his April 10 visit to the University Park Campus. Mr. Olmos, best known for his Emmy-award winning role of Lt. Castillo on "Miami Vice" and teacher Jaime Escalante in the movie "Stand and Deliver," was keynote speaker for Ebony and Ivory Week's 10th anniversary celebration.

Photo: Greg Grieco

General Forms Usage Guide now on GURU

Several *Intercom* issues ago, Systems and Procedures announced the availability of the University Policy Manual online electronically through its General University Reference Utility (or GURU). Now, the General Forms Usage Guide is also available in GURU, which can be found at URL <http://guru.sp.psu.edu/> on the World Wide Web.

With the ever-increasing availability of electronic communications and mounting costs for printing the monthly updates for the 800 manuals regularly maintained by Systems and Procedures, there will be no more paper usage guide pages printed.

Systems and Procedures is scheduling several free sessions to help people get connected and become

familiar with GURU. The first course, titled "Making the GURU Connection," is intended to provide information about gaining access to GURU via the University backbone or through an access account with the Center for Academic Computing. The session is set for 1:15 to 2:45 p.m. Wednesday, May 15, in 319 Rider Building on the University Park Campus.

A second free course, "Becoming Comfortable With GURU," will show participants how to get around in GURU, usage guide material and instructions. It will also illustrate how to look for and order (or print locally) paper forms; and how to use the search functions and other features available. This intermediate session is

scheduled from 3:15 to 4:45 p.m. Wednesday, May 15, in 319 Rider.

The Human Resources Development Center (HRDC) is accepting registrations for these two courses.

Since its inception a little more than six months ago, GURU usage has progressed rapidly, logging about 17,000 accesses for March alone. With the addition of the General Forms Usage Guide, GURU's online usage is expected to expand significantly.

Current holders of the paper manuals are asked to return the manuals to 123 University Support Building II at University Park, once their access to GURU is established. By returning the manuals, out-of-date policy information will not be inadvertently used.



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Life-size toys

Dan Saytar, a senior arts major, rearranges his sculpture of those much-loved, snap-together toys—Legos, which are on display outside the Visual Arts Building on the University Park Campus. The replicas of the big toys, as well as the other sculptures, are on display until tomorrow. The artwork is part of a class assignment dealing with memory. The class for beginning sculpture students is taught by Sallie McCorkle, assistant professor of art.

Photo: Greg Grieco

Senior vice president to retire at year's end

David A. Shirley, senior vice president for research and graduate education at Penn State since 1992, will retire at the end of 1996.

He and his wife, Barbara, plan to move to Berkeley, Calif., where Dr. Shirley was director of the Lawrence Berkeley Laboratory before coming to Penn State. He was recently named director emeritus of the laboratory and he plans to pursue his continuing research interests there.

Dr. Shirley's tenure at Penn State coincided with major Congressional efforts to slow the growth of federal research and development programs. Nevertheless, under his leadership, Penn State is well positioned to compete. In the most recent comparative study of the

ability of university faculties to take advantage of a broad range of funding opportunities, Penn State ranked first in the nation.

To ensure Penn State's ability to compete for the best graduate students, Dr. Shirley convened the Task Force on Graduate Education. This committee targeted enhanced quality, growth where appropriate and increased student funding as priorities. The most recent report on graduate education shows that the Graduate Record Examination scores on incoming graduate students are the highest in Penn State's history.

During his tenure, graduate enrollment of underrep-

See "Shirley" on page 17

Redesign is on schedule and moving ahead

By LISA M. ROSELLINI
Public Information

The proposed redesign of Penn State is moving along on schedule, according to University officials who say the process for this year is quickly wrapping up and should culminate in July with a presentation to the Board of Trustees.

The trustee presentation, however, is not the last stop for the plan that will retool the University and its 23-campus system. It will then be woven into the University's five-year strategic planning process being undertaken by the University Planning Council. The overall University-wide strategic plan, expected to provide direction, spell out priorities and guide the development of Penn State, will be set in motion on July 1, 1997. (See story on page 3 for more details.)

"A lot of the details will not be worked out by July, but the basic blueprint of a plan that allows campuses to directly answer the needs of students across the state will be in place," Robert E. Dunham, senior vice president and dean for the Commonwealth Educational System, said.

Last week, in an effort to better map out what programs would be offered at various Penn State locations, campuses submitted documents that included enrollment, budget and program outlines. Dr. Dunham said the documents will now undergo a review by central administration, which will be looking to ensure that the plans are feasible, whether enrollment projections support proposed programs and that no unnecessary duplication of services within the University or with neighboring institutions exists.

As part of the review process, Dr. Dunham will go on the road in May to participate in eight regional meetings across the state

See "Redesign" on page 3

Inside



Strategic planning

The University Planning Council, which is seeking input from the University community, has developed a list of issues that need further study. See story on page 3.



International art

Photographs depicting life in Cuba, taken by *Intercom* photographer Greg Grieco, are on display through May 12 in the Kern Building on the University Park Campus. For more arts features and event-related information, please turn to page 14.

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DIVERSITY

Summer programs aim to diversify environment

Penn State's summer enrichment programs offer new experiences, and the chance to improve old skills and learn new ones. The 31 programs, funded by the Equal Opportunity Planning Committee (EOPC), focus on providing a more culturally diverse environment at Penn State.

Most of these programs cover minority student recruitment and retention, academic skills development and enhancement." Terrell Jones, deputy vice provost for educational equity and chairman of the EOPC, said. "The enrichment classes also offer students a first-hand glimpse into careers they may be considering."

Most of the programming targets minority students from the eighth grade through graduate school. A sampling follows:

- Entering Penn State freshmen prepare for first-year calculus, physics and chemistry during the seven-week Pre-Freshman Engineering and Science Summer Bridge Program at University Park. They also get academic

and career counseling, and work on developing time management and study skills.

- The Technology, Attitudes, Learning and Knowledge (TALK) Project is an intensive, three-week session for people with communication disabilities such as stuttering and for those who want to teach them.

"There are 3 million people in this country — fully 1 percent of the population — who stutter," Edward Blood, chair of the Department of Communication Disorders, said. "In this program, graduate and doctoral students in the department will learn how to treat stuttering by working with Penn State undergraduate students who stutter."

- The Hispanics for Academic Program (HAP) at University Park takes 20 Hispanic high school seniors and helps them prepare for college with classes in intensive skills building. The program focuses on preparing the students for Penn State.

- "The purpose of the Women in Science and Engineering (WISE) Week at University Park is to offer young women a solid start in the sciences and engineering," Judy Wakhungu, program director, said. "We also communicate the fact that Penn State provides an environment conducive to their success." The targeted 36 students who will be in the 11th grade in the fall, are talented in math or science, but they may not be considering a scientific or technical career. The WISE Week gives them hands-on experience in fields they may not be familiar with in order to open their eyes to a new future.

- The MOEST Program — Mathematics: Opportunities in Engineering, Science and Technology at the Penn State York Campus gives seventh- to 12th graders a chance to improve their science and math grades. The program is intended to give students a chance to earn a college degree in science or technology and then encourages them to bring their skills and expertise back to the York area.

- The Minority Scholarship for Education Abroad Programs provides need-based scholarships for minority undergraduates in the Penn State University Park Campus.

Other summer programs include:

- The Minority Research Apprenticeship Program which targets high school graduates who want to pursue careers in biomedical research or the health professions; University Park Campus.

- The Minority Student Apprenticeships in Agriculture, which is for entering 11th and 12th graders with a B average or above who have a career interest in biological or physical science; University Park Campus.

- The Access to Careers in Engineering Program at the Penn State Hazleton Campus gives first priority for application to women and minorities in the 10th and 11th grades who have an interest in engineering.

■ Staff review time

Process keys on staff development, emphasizes teamwork

This spring marks the anniversary of Penn State's new Staff Review and Development Plan. The plan, which focuses on staff development, is the cornerstone of the University's approach to managing staff performance. Beginning this month, staff will review with their supervisors the plan they put in place last year and examine their progress toward the goals they specified last year.

"The former performance appraisal process focused on evaluation, while the Staff Review and Development Plan facilitates staff development and reflects the University's emphasis on teamwork, quality, commitment to diversity and customer service," Billie Willett, assistant vice president for Human Resources, said.

During the fledgling process in 1995, staff members drew up a self-assessment and came up with a one-year action plan for reaching goals. Action plans could have included items ranging from helping to increase communication within a department to taking a professional development course. It's time to ask if goals were met and what can be done differently next year to aid professional growth.

"In today's rapidly changing organizations, continuous development is essential for enhancing individual careers and organizational success," Gary Schultz, senior vice president for business and finance and treasurer, said. "The staff review and development process provides a way to focus professional development on both individual and departmental goals."

To help University employees reach their

"The staff review and development process provides a way to focus professional development on both individual and departmental goals."

Gary Schultz
senior vice president for
business and finance and treasurer

potential, the Human Resource Development Center offers support for staff and management efforts to create and implement development plans. A division of the Office of Human Resources, HRDC offers programs and services that improve the performance of both individuals and departments. Not only does HRDC offer a comprehensive schedule of courses each semester, but also designs and delivers customized programs and offers facilitation and consultation services — including assistance with strategic planning and managing organizational change.

Many employees are taking advantage of HRDC's development offerings. During the last three years, attendance at programs offered by HRDC has increased by more than 125 percent. Lenny Pollack, who manages HRDC, attributes some of the increased program demand to the number of staff who included HRDC courses in their development plans last year. He also pointed out that several departments and colleges are requesting tailored programs that address the col-

lective needs of employees in the unit.

"Such programs are very cost effective, can be scheduled at off-peak times, such as summer, and focus development on a particular priority," Dr. Pollack said.

For example, the Enrollment Management and Administration Division recently worked with HRDC to meet a unit-wide goal to improve delivery of seamless services to its customers.

"The program was an especially good match with the core services and functions of the division," Anna Griswold, assistant vice president for financial aid, said. "Benefits for our organization included staff empowerment and team building, practical application and relevance, improved communication skills and a focused approach to quality service."

In addition, HRDC can also help organizational areas assess and prioritize their training needs.

"HRDC's goal is to offer a comprehensive schedule of programs that includes something for everyone's development plan," Dr. Pollack said.

Toward this end, many new courses are related to the eight performance factors or review criteria in the new Staff Review and Development Plan: job knowledge, judgment and problem solving, self-management, teamwork, quality, commitment to diversity, customer service and communication.

For more information on how HRDC can help make development plans work, contact Dr. Pollack at (814) 865-3507.

■ University Planning Council Identifying strategic issues for discussion

As part of the strategic planning efforts, the University Planning Council has developed a list of issues for further study, and is seeking University-wide input on them.

"The planning council has looked closely at a number of questions relating to the structure, functions and financial issues of the University. We have identified a group of issues to address initially that would likely make an immediate contribution to moving Penn State closer to achieving its strategic goals," John A. Brighton, executive vice president and provost, said. "The council feels that it's important to focus its efforts, recognizing that there are many other issues facing Penn State."

Over the next few weeks, the University Planning Council members will form working groups, with consultation from others, to consider these issues. The council is requesting comments from the University community on these issues and alternative strategies that it might consider to address them.

Strategic Goals

- To achieve excellence in scholarship, education and university life.
- To fulfill with distinction the University's commitment to the people of the Commonwealth.
- To foster a caring University community that provides leadership for constructive participation in a diverse, multicultural world.

Anyone wishing to respond, may e-mail their comments to response@psu.edu or mail their advice directly to the University Planning Council at 405 Old Main, University Park, Pa.

16802. A list of issues also is available at <http://uwcio.ur.psu.edu> on the World Wide Web under "University Planning."

Strategic Issues

- What steps can be taken to improve undergraduate education at Penn State over the next five years within the resources that are likely to be available to the University?
- What broad disciplinary or specific academic program enhancements should be considered on the basis of existing strengths or emerging opportunities?
- What are the strengths and weaknesses of existing and alternative college and disciplinary alignments in terms of quality and efficiency?
- What are the cost-benefit implications of various differential tuition and fee models?
- What are the cost-benefit implications of alternative enrollment-driven cost center budget models by location?
- What are the most effective organizational structures and funding mechanisms for advancing Penn State's multicultural goals?
- What are the alternative strategies to meet Penn State's information technology funding needs?
- What are the most effective policies, structures, and funding mechanisms to improve continuing and distance education delivery, and to promote faculty, college and campus participation in continuing and distance education?
- Which academic support services for undergraduate students are best performed by the colleges and which by the central administrative units? What are the best means for financing these services?
- Which academic support services for graduate students are best performed by the colleges and which by central administrative offices? What are the best means for financing these services?
- What are the most effective organizational structures and funding methods for providing research support in areas such as contracts and grants administration, intellectual property management and intercollegiate research programs?
- What are the essential non-academic support functions and services that Penn State must provide and what are the most effective means of delivering these services?

Redesign

continued from page 1

with other institutions to explain Penn State's plan in better detail.

"Openness has been a hallmark of this process," he said. "It's important to give everyone a chance to see what we're doing. There may be criticisms and there is more work involved in responding to those concerns, but we know it will ultimately lead to a better plan and better support."

When the idea to reorganize was initially discussed seven months ago, President **Graham B. Spanier** sent letters to college and university leaders across Pennsylvania telling them of Penn State's plans to revamp its decades-old system. University campus CEOs held meetings with neighboring institutions to determine where collaboration was possible and how each could better serve constituents.

But despite these efforts, several colleges and universities in the state are critical of Penn State's actions to date. So far, the University has proposed giving campuses more programming authority by creating a 12-campus Commonwealth College and allowing at least two other campuses (Altoona and Abington-Ogontz) to become four-year locations. Under the proposal, Penn State Harrisburg would merge with the Schuylkill Campus and Berks and Allentown could unite to possibly form another four-year college.

"I think there is some misinterpretation within the Pennsylvania higher education community of what the plan involves and there are some inaccuracies about what we are trying to achieve," Dr. Spanier said. "We are not adding campuses nor expanding to capture students who might otherwise attend elsewhere. We are taking a cold, hard look at ourselves and trying to help Pennsylvania's students continue their education, especially those who are place-bound because of work or family commitments."

"There is a shift in demographics taking place and we need to ensure that higher education is ready to address that shift," he said. "All of higher education needs to address these changes in order to remain relevant in the 21st century. We cannot operate the way we did several decades ago."

Turning to demographics, Dr. Spanier said projections show that by the year 2001, an additional 10,000 Pennsylvania high school graduates will seek college entrance.

"We are looking to pick up only a small share of the projected increase, but we propose to grow no more than 1 percent to 2 percent a year for a five-year period, from our current statewide enrollment of 76,400," he said.

"Penn State intends to improve what we do in each community and to be ready for the future," he said. "In the end, the people of Pennsylvania will benefit."

Obituaries

Charles W. Cannon, instructor of English at the Penn State Schuylkill Campus, from Sept. 1, 1968, until June 30, 1984; died March 11. He was 77.

Thompson Rush Faxon, community service officer, University Safety, from Sept. 1, 1962, until his retirement April 1, 1979; died March 23. He was 79.

Stanley F. Gubernat, 83, a machinist at the University before retiring in 1977; died April 5.

Catherine Ferguson Hemmes, a University bookkeeper until her retirement in 1975; died March 27. She was 82.

Ruth M. Hummel, 89, a retired employee of the University; died March 23.

Mildred Kay Turner, food service worker, Housing

and Food Services, from Sept. 26, 1968, until May 1, 1983; died March 27. She was 87.

Zi Fang Xu, a research technician with the Intercollegiate Materials Research Laboratory; died March 20. She was 54.

She was a graduate of Shanghai Normal University in Shanghai, China.

LECTURES

Building new learning environments topic of talk

The Department of Distance Education, Continuing and Distance Education, will close its professional development series for the 1995-1996 academic year on Monday, May 6, with "Building New Learning Environments and the Implications for Faculty." The talk will be presented by **James Ratcliff**, director, Center for the Study of Higher Education.

In his presentation, Dr. Ratcliff will examine the following questions:

- What are the characteristics of the "new teaching/learning environment?"
- What changes are needed to move from conventional undergraduate instruction to the new teaching environment?
- What are the current and needed roles and rewards for faculty to

participate in the new teaching/learning environment?

■ What are models for understanding the change process?

This informal, brown-bag presentation and discussion will be held over the lunch hour, in room 106 Mitchell Building, also called Studio D. No registration is necessary.

The Distance Education Professional Development Series is designed to help the University community explore a variety of operational methods, definitions, technologies and experiences related to the design, development and delivery of education at a distance. If you have related topics you would like to explore in the 1996-1997 series, please contact Ann Taylor by telephone at (814) 863-8294 or by e-mail atb@cedc.psu.edu.

Arthritis Awareness Day at Hershey Medical Center

The sixth annual Dr. Nathan Sussman Arthritis Awareness Day will be held at The Milton S. Hershey Medical Center from noon to 5:15 p.m. Sunday, May 5.

The keynote address will be presented by Dr. Melvin Horowitz, Division of Endocrinology, Hershey Medical Center, and is titled "Osteoporosis: State-of-the-Art Diagnosis and Management."

Topics and presenters for the first concurrent afternoon session are:

- Fibromyalgia: Update on Causes and Treatment; Dr. George Wineburg, Division of Rheumatology, Hershey Medical Center;
- Joint replacement, Dr. William Parrish, Department of Orthopedics, Hershey Medical Center;

■ Arthritis Basics for Patient, Family and Friends: "Arthritis 101," Valerie Loudonbach, patient services committee, Arthritis Foundation, and Dr. Barbara Ostrov, Division of Rheumatology, Hershey Medical Center.

Topics and presenters for the second concurrent afternoon session are: Job Retraining for People with Arthritis presented by representatives of the Office of Vocational Rehabilitation; Fibromyalgia: Update on Causes and Treatment, Dr. Wineburg; and Arthritis Medication Update, Dr. Kevin Clawson, Division of Rheumatology, Carlisle Hospital.

For more information or to register to attend, please contact the Arthritis Foundation at (800) 776-0746 or (717) 763-0900.

Ethics series looks at issues facing legislators, those in business world

"Emerging Ethical Issues in Business and Government," a noon forum set for April 4 at the Penn State Downtown Center in Harrisburg, will look at ethical issues and dilemmas facing legislators, public figures and those in the business world.

Sponsored by the Penn State Harrisburg Center for Ethics, the presentation will feature **Kurt Parkum**, associate professor of management, Penn State Harrisburg, who will review current literature about the ethical issues arising in business practice and the

approaches taken to deal with these conflicts; **Jeremy Plant**, professor of public policy and administration, Penn State Harrisburg, will examine ethical dilemmas facing legislators and public administration figures; and **Glen Mazis**, associate professor of humanities and philosophy, Penn State Harrisburg, will comment on the two presentations to highlight how contemporary issues echo traditional ethical dilemmas.

For registration, call the Downtown Center at (717) 763-0433.



Bach's Lunch

The Penn State Glee Club Hi-LO's, from left, Jason Heirick, Michael L. Ciothi, Todd Emer, Eric Grover, Jordan Ullman, Sherman Left, Jeremy Goldman, Kenneth Ando and Jeremy Baker, perform in Eisenhower Chapel on the University Park Campus April 18 as part of the Bach's Lunch series.

Photo: Kristie Guldner

Promotions

Staff

Catherine F. Baker, director of administration II at The Hershey Medical Center.

Mary Lynn Brannon, instructional designer at Penn State Worthington Scranton Campus.

Michael C. Burns, lead systems programmer I in Computer and Information Systems, Center for Academic Computing.

Sigrid F. Byers, staff assistant VI in Intercollegiate Athletics.

Marsha S. Church, lead applications programmer/analyst in Computer and Information Systems, Office of Administrative Systems.

Judith M. Crange, staff assistant VI in Research and Graduate School.

Susan J. Decker, systems planning specialist III in Computer and Information Systems, Office of Administrative Systems.

John M. Dickison, senior production director, in College of Agricultural Sciences.

Holly S. Donaldson, staff assistant VI at The Hershey Medical Center.

Beth A. Dorman, staff assistant VI in College of Engineering.

Linda L. Doto, staff assistant VI in College of Arts and Architecture.

Gail L. Eberly, marketing associate at The Hershey Medical Center.

Denise M. Gibo, senior technician, research, at The Hershey Medical Center.

Wendy L. Gilpen, administrative assistant III in Applied Research Lab. **Rikki R. Godshall**, network and support analyst at The Hershey Medical Center.

Janda D. Hankinson, senior research programmer in Computer and Information Systems, Center for Academic Computing.

Susan E. Hasenbein, staff assistant VII at The Hershey Medical Center.

Christine M. Horting, planning associate at The Hershey Medical Center.

Pamela J. Dubbs Houck, staff assistant VI in Research and Graduate School.

Pamela J. Dubbs Houck, staff assistant VI in Research and Graduate School.

Lynn C. Houser, staff assistant VIII at The Hershey Medical Center.

Loretta M. Johnston, staff assistant V in Student Affairs.

Cynthia L. Kellerman, staff assistant VII in College of Agricultural Sciences.

Deborah K. Laubscher, academic counselor in College of Liberal Arts.

William Laychur, executive chef in Housing and Food Services.

Technical Service

Michael J. Roth, group leader landscape/tree surgeon at Penn State Harrisburg.

John E. Saxman, building services clerk in College of Engineering.

Philip M. Seyfert, animal caretaker A at The Hershey Medical Center.

Cyrus E. Shaffer, dining hall worker A in Housing and Food Services.

Martin P. Shedlock, residence hall preventative maintenance worker in Housing and Food Services.

Cyrus E. Shaffer, dining hall worker A in Housing and Food Services.

Sandra J. Snyder, food preparer A, Housing and Food Services, at Penn State McKeesport Campus.

Douglas D. Strine, maintenance mechanic at The Hershey Medical Center.

Daniel B. Wilson, maintenance worker utility, Group Leader, at Bryce Jordan Center.

Timothy L. Wisor, maintenance worker utility in Office of Physical Plant.

Carol A. Young, janitorial worker in Office of Physical Plant.

Earth and Mineral Sciences celebrates century of learning

The College of Earth and Mineral Sciences, like the colleges of Engineering and Agricultural Sciences, is celebrating a century of existence this year.

Founded as a School of Mines in 1896, at a time when minerals played a dominant role in the national economy and similar institutions were being created around the United States, it grew slowly, then flourished unlike many of its contemporary schools of mines that were absorbed by other academic units, or forced to close their doors due to lack of support.

What began as a school offering instruction in mining engineering, geology and metallurgy evolved into a diverse college with wide-ranging interests. The college now has six departments: materials science & engineering, mineral engineering, geosciences, geography, meteorology and mineral economics; and flourishing research centers focusing on earth system science, advanced materials and fuel utilization.

Over the years, the college has sustained a close relationship with the industries and professions related to its academic mission and, over the past 40 years, has gained a reputation for research and graduate education.

The 120 faculty members of the College of Earth and Mineral Sciences led the University in per capita research funding for many years. In recent rankings of doctoral programs by the National Research Council, the Department of Geography's program was ranked No. 1 in the nation out of 36 programs. Today, the College of Earth and Mineral Sciences is known within the University for its innovative approach to undergraduate teaching; it is acknowledged throughout the academic community for the contributions of its scientists and scholars; and it has earned a national reputation for its work in weather forecasting.

"We believe this is a very special college," Dean John Dutton said. "It has a unique range of disciplines and remarkable ability to come together to address critical societal issues. We have been fortunate that our history and traditions have allowed us to develop a strong sense of community, and we have always been united in our commitment to excellence in everything we do."

"I have participated in the college's development for 30 years and still find it a stimulating and rewarding environment for intellectual growth."

Faculty/Staff Alerts

Mature driving program

An eight-hour classroom refresher course developed by AARP to help drivers 50 years of age or older improve their skills is being offered at The Milton S. Hershey Medical Center in May.

"55 ALIVE/MATURE DRIVING" will be held from 8 a.m. to noon Wednesday, May 1, and Thursday, May 2, in Room 1010 of the University Physicians Center at Hershey.

All automobile insurance companies conducting business in Pennsylvania are required to offer a premium discount to graduates of the 55 ALIVE/MATURE DRIVING program, which is a state-approved driver improvement course.

Parking for the day is available adjacent to the building. An \$8 fee for materials is required. Refreshments will be provided.

For more information or to register for the course, contact Rick Shaffer at (717) 531-7105.

Pattee hours extended

Pattee Library* will be on the following schedule during the final exam period:

- Friday, April 26 7:45 a.m. to midnight
- Saturday, April 27 8 a.m. to midnight
- Sunday, April 28 9 a.m. to midnight
- (West Pattee first floor, Reserve Reading Room, Periodicals, East Pattee floors 1-4) 9 a.m. to 2 a.m.
- Monday, April 29, through Thursday, May 2 7:45 a.m. to midnight
- (West Pattee first floor, Reserve Reading Room, Periodicals, East Pattee floors 1-4) 7:45 a.m. to 2 a.m.
- Friday, May 3 7:45 a.m. to midnight

*Historical Collections and Labor Archives, Interlibrary Loan, Music Listening Room, University Archives/Penn State Room, Pattee Copy Center, the Rare Books Room and all of the branch libraries at the University Park Campus will keep regular spring hours during this time.

Special hours for Pattee and other libraries at University Park Campus

- Saturday, May 4 8 a.m. to 5 p.m.
 - Sunday, May 5 Closed
- Pollock Library will continue its 24-hour service April 26 through May 4. It will close on Sunday, May 5 at 5 p.m. and reopen on Wednesday, June 12.
- For more information on hours of library service, call (814) 865-3063 or type HELP HOURS when using the Library Information Access System (LIAS).

Libraries intersession hours

University Libraries on the University Park Campus will follow the following schedule during intersession May 6 through 31:

- Pattee Library: Architecture Library, Earth and Mineral Sciences Library, Education Library, Engineering Library, Mathematics Library and Physical Sciences Library:
 - Monday through Thursday 8 a.m. to 10 p.m.
 - Friday 8 a.m. to 5 p.m.
 - Saturday 9 a.m. to 5 p.m.
 - Sunday 1 to 5 p.m.
- *Historical Collections and Labor Archives, Interlibrary Loan, Music Listening Room, University Archives/Penn State Room, Pattee Copy Center and the Rare Books Room will keep regular spring semester hours during this time. All libraries will be closed on Monday, May 27 for Memorial Day.

Intersession hours for June 1 through 11 follow:

- June 1-2 Closed
- June 3-7 8 a.m. to 5 p.m.
- June 8-9 Closed
- June 10-11 8 a.m. to 10 p.m.

Summer session hours will begin Wednesday, June 12.

Pollock Library will be closed from May 6 through June 11 and will begin summer session hours on Wednesday, June 12.

For more information on hours of library service, call (814) 865-3063 or type HELP HOURS when using the Library Information Access System (LIAS).



By DOUG STANFIELD
technology editor

See the USA

Spring has been a long time coming, but it's finally time to dust off the bulky road atlas and plan a trip or two, right?

Well, maybe not.

Carolyn Dudas, a student at Penn State Erie, The Behrend College, sent a note about a new service on the Web.

MapQuest is a free site that lets you find a business, address or city; zoom in on any location in the United States; set your own viewing preferences; add points of interest to your maps and save them for later use. It's offered by a company that has other things for sale, of course, but they don't seem to have skimped on MapQuest's features just because it's free. You'll need to give them your name and e-mail address to be able to customize and save maps, and to use some of the other features.

The network connection is slow from time to time, especially in the afternoons. But this one is worth a visit if you do much traveling.

The company's main Web site is URL: <http://www.geocities.com>. The MapQuest URL is: <http://www.mapquest.com/>

The GURU knows

GURU is the name of a clever Web site at Penn State intended to be a one-stop source for official Penn State policies, procedures, form usage instructions and other business information and tools.

The Office of Systems and Procedures, which manages this site, has recently added a decision tool function to GURU (the General University Reference Utility) which takes the user through a series of questions and answers to lead to a correct decision based upon the responses the user provides. So far, there are two tools available under GURU, with many more planned. To access the decision tool, click on the toolbox icon. URL: <http://juror.sp.psu.edu/>

More places to go

And finally, Pete Weiss sends this along for those needing information on how to cite Internet information resources:

<http://www.pitsco.com/pitsco/cite.html>

- APA Publication Manual crib sheet
- Bibliographic formats for citing electronic information
 - Citing computer documents
 - Electronic sources: APA style of citation
 - Electronic sources: MLA style of citation
 - MLA-style citations of electronic resources
 - MLA Citation Guide
 - Web extension to APA style
 - Williams College Library Web

If you know of an unusual or particularly innovative use of the Web, please send the URL to dus9@psu.edu.

Commencement

Graduation ceremonies to be held May 9-12

Penn State will hold 1996 Spring Commencement ceremonies at all 23 campus locations the weekend of May 10 for 778 associate, 5,050 baccalaureate and 1,189 graduate degree students — a total of 7,017 graduates systemwide, including 112 medical students.

At the University Park campus, 28 students will graduate with associate degrees, 4,393 with baccalaureate degrees, 777 students with master's degrees and 190 with doctorates, for a total of 5,388 graduates. Each college at University Park will hold its own ceremonies. Information follows:

Friday, May 10:

■ **4:30 p.m.:** University Scholars Medals ceremony for graduating seniors in Eisenhower Auditorium.

■ **8 p.m.:** Graduate School ceremonies in Eisenhower Auditorium. **Jules B. La Pids,** president of the Council of Graduate Schools, will speak. Dr. La Pids was appointed associate dean for research in The Ohio State University's graduate school in 1972, and two years later became the school's dean and vice provost for research.

■ **8 p.m. ROTC Commissioning Ceremony** in Schwab Auditorium. A Navy admiral will address cadets and midshipmen.

Saturday, May 11:

■ **9 a.m.:** Eberly College of Science in The Bryce Jordan Center. **M. S. Wrighton,** chancellor and professor of chemistry at Washington University in St. Louis, will speak. Dr. Wrighton has been chancellor and professor of chemistry at Washington University since 1995. He is the author or co-author of more than 400 research articles and has 14 patents.

■ **9 a.m.:** College of Agricultural Sciences in Eisenhower Auditorium. **Charles C. Brosius,** Pennsylvania secretary of agriculture, will speak. Mr. Brosius graduated from Penn State with a bachelor's degree in dairy science and serves on the University's Board of Trustees.

■ **Noon:** College of Health and Human Development in The Bryce Jordan Center. Dr. **Reed V. Tuckson,** president of Charles R. Drew University of Medicine and Science, will speak. Before arriving at Drew University in 1991, Dr. Tuckson served as senior vice president for programs of the March of Dimes Birth Defects Foundation and as the District of Columbia commissioner of public health.

■ **Noon:** College of Arts and Architecture in Eisenhower Auditorium. **Roch Carrier** will speak. Dr. Carrier has been rector of the French Department of College Militaire Royal de Saint-Jean since March 1990. He is director of the Canada Council, Fellow of the Royal Society of Canada, an officer of the Order of Canada and a recipient of the Stephen Leacock medal.

Ceremonies across the state

Penn State will hold individual commencement ceremonies at 22 campuses across the state as listed below.

■ **Abington-Ogontz:** Friday, May 10, noon, Physical Education Building. State Rep. **Eugene McGill** of the 151st District will speak.

■ **Allentown:** Thursday, May 9, at 7 p.m., honors convocation and graduation celebration.

■ **Altoona:** Saturday, May 4, at 1 p.m. in the Community Arts Center. **Valerie Stratton,** associate professor of psychology, will speak.

■ **Beaver:** Wednesday, April 24, at 7 p.m. Campus Spring Awards Banquet in the campus dining hall; **J. Thomas Eakin,** assistant president of student affairs, will speak.

■ **Berks:** Thursday, May 9, at 7:30 p.m.; graduation celebration in the Perkins Student Center.

■ **Delaware County:** Thursday, May 9, at 7 p.m. in the Vairo Library. **Rene deWolf,** staff writer for the *Philadelphia Daily News*, TV narrator and author, will speak.

■ **DuBois:** Friday, May 10 at 2 p.m. in the Multi-Purpose Building gymnasium. State Rep. **Dan Surra,** D-75th District, will speak.

■ **Penn State Erie, The Behrend College:** Saturday, May 11, at noon on Reed Lawn. **Rodney Lee Troester,** associate professor of speech communications at Behrend, will speak.

■ **Fayette:** Saturday, May 11, at 11 a.m. in the Malhot Building. **John Cahir,** dean and vice provost for undergraduate education, will speak.

■ **Great Valley:** Friday, May 17, at 7 p.m. on the campus lawn. **Charles Bierbauer,** senior Washington correspondent for CNN, will speak.

■ **Harrisburg:** Saturday, May 11, at 9:30 a.m. for behavioral science and education, Division of Humanities and School of Public Affairs; 1:30 p.m. for business administration, science, engineering and technology school. **Howard Yerusalem,** former secretary of transportation, PennDOT,

will speak at both ceremonies in the Hershey Theatre.

■ **Hazleton:** Friday, May 10, at 7 p.m. in the Physical Education Building. State Sen. **James Rhoads,** R-29th District, will speak.

■ **The Hershey Medical Center:** Sunday, May 19, at 3 p.m. in Founders Hall. Dr. **Benjamin S. Carson,** director of pediatric neurosurgery at The Johns Hopkins Hospital, will speak.

■ **McKeesport:** Saturday, May 11, at 11 a.m. at the First Free Evangelical Church. **Cecil M. Springer,** president of Springer Associates consulting firm and Penn State trustee emerita, will speak.

■ **Mont Alto:** Saturday, May 11, at 10 a.m. on the soccer field or in the Multi-Purpose Building. **Robert Secor,** vice provost, will speak.

■ **New Kensington:** Friday, May 9, at 7 p.m. in the theatre. **John England,** president and CEO of Allegheny Valley Hospital, will speak.

■ **Penn College:** Saturday, May 18 at 2 p.m., in the Community Arts Center, Williamsport. **Tokuo Ogawa,** director of Toyota Motor Corp. of Nagoya, Japan, will speak.

■ **Schuylkill:** Thursday, May 9, at 7:30 p.m., in the Student and Community Activity Center. **John G. Bruhn,** provost and dean of Penn State Harrisburg, will speak.

■ **Shenango:** Friday, May 10, 7:30 p.m. in the Campus Auditorium. Rep. **Philip English** of the 21st Congressional District will speak.

■ **Wilkes Barre:** Saturday, May 11, at 10 a.m. on the Hayfield Lawn. **Bernard Warren Hostrop,** senior civil engineer, will speak.

■ **Worthington Scranton:** Friday, May 10, at 7 p.m. in the Multi-purpose Building. **William Asbury,** vice president for student affairs at Penn State, will speak.

■ **York:** Thursday, May 9, at 4 p.m. in Rotary Woods. **Lary Newcomer,** assistant professor of engineering and computer science, will speak.

Weiss has received Outstanding Alumnus and Distinguished Alumnus awards, as well as numerous professional and educational distinctions, including honorary doctoral degrees from Purdue and DePaul universities and Knox College.

■ **3 p.m.:** College of Communications in Eisenhower Auditorium. **Carmen Finestra** TV producer, will speak. Mr. Finestra is best known for his work with "The Cosby Show" and as the co-creator and executive producer of "Home Improvement." He graduated from Penn State in 1971.

■ **6:30 p.m.:** Smeal College of Business Administration in The Bryce Jordan Center. **L.G. Waterhouse,** general manager for marketing and business development at IBM, will speak. In 1991 he was appointed to the Board of Visitors of The Smeal College of Business Administration. He also is a member of the Conference Board's Council of Planning Executives.

■ **6:30 p.m.:** College of Earth and Mineral Sciences in Eisenhower Auditorium. **Meteorologist Edward Lorenz,** professor emeritus at the Massachusetts Institute of Technology, will receive an honorary degree in science and engineering from Penn State and will give the college commencement address. Dr. Lorenz is best known for being the first to describe "deterministic chaos" as a superposition of small-scale events that altered the landscape of meteorology and other sciences as well, including biology and fluid mechanics.

Sunday, May 12:

■ **1 p.m.:** College of the Liberal Arts in The Bryce Jordan Center. **Novelist John Barth** will receive an honorary degree of humane letters, and **John Moore,** associate professor of English and comparative studies at Penn State, will speak. John Barth is widely regarded as a highly influential contemporary novelist, one of the inventors of American postmodern fiction and an educator. He completed both bachelor's and master's degrees at Johns Hopkins University, and began his teaching career at Penn State in 1953.

Speaker **John Moore** joined the Penn State faculty in 1967 and has won nearly every teaching award the University community bestows. A 17th-century scholar, Dr. Moore has been the English department's associate head and director of its honors program and he currently directs the department's undergraduate studies program.

■ **1 p.m.:** College of Education in Eisenhower Auditorium. U.S. Rep. **Bill Goodling** (R-Pa.) from Loganville will speak. He represents the 19th Congressional District in southeastern Pennsylvania. He is chair of the House Economic and Education Opportunities Committee and member of the Committee on the Budget.

ient of the Stephen Leacock medal.

■ **3 p.m.:** College of Engineering in The Bryce Jordan Center. **William L. Weiss,** retired chair and CEO of Ameritech, will speak. Ameritech

provides service communications and advanced information services to about 12 million customers in the Midwest and has operations abroad. A 1951 graduate of Penn State, Mr.

Commencement

University to award two honorary degrees

John Barth will receive an honorary doctor of humane letters during the College of the Liberal Arts commencement ceremony May 12 at The Bryce Jordan Center.

By ALAN JANESCH
Public Information

John Barth, the award-winning novelist who taught English at Penn State from 1953 to 1965, will receive the honorary degree of doctor of humane letters.

Mr. Barth is the author of 13 books, including nine novels. His most recent novel, *Once Upon a Time: A Floating Opera*, was published in 1994, and *On with the Story*, a collection of short stories, is set for publication later this year by Little, Brown.

While at Penn State, Mr. Barth used the University Park Campus as the setting for his 1966 novel *Giles Goat-Boy*, which became a bestseller. An influential contemporary novelist and a highly regarded educator, Mr. Barth is viewed as one of the inventors of American postmodernist fiction.

Mr. Barth has won many awards. His sixth work of fiction, *Chimera*, won the National Book Award in 1973. Two of his other novels, *The Floating Opera* (1956) and *Lost in the Funhouse* (1968) were both nominated for the National Book Award.

He also has received the National Institute of Arts and Letters grant in literature (1966), the Brandeis University

creative arts award in fiction (1965), and the Rockefeller Foundation grant in fiction (1965-66). In 1974, he was elected to both the American Academy of Arts and Letters and the American Academy of Arts and Sciences.

Mr. Barth's fiction, critics say, relies on elaborate framing devices, parody and wit to explore the claims of art and the problems of self-consciousness.

In addition to *The Floating Opera*, *Giles Goat-Boy*, and *Once Upon a Time*, his other novels are *The End of the Road*, *The Sot-Weed Factor*, *LETTERS, Sabbathal*, *The Tidewater Tales*, and *The Last Voyage of Somebody the Sailor*.

Mr. Barth also has written two volumes of essays and other non-fiction and dozens of short stories and non-fiction articles.

He is currently professor emeritus in the writing seminars at The Johns Hopkins University, Baltimore, Md. He began at Penn State as an instructor in 1953, became an assistant professor in 1957 and an associate professor in 1960. After that, he taught at the State University of New York at Buffalo and Boston University before returning to Johns Hopkins in 1973. Mr. Barth earned both his bachelor's degree (1951) and master's degree (1952) from Johns Hopkins.

courtly, faintly distant. He was interested and deferential. He established for me what a writer was. He wrote the way people breathe. He went on to become a major novelist and literary theorist. But I saw then, in that foreign-alien young man, what the nature of a true writer was.

*Stanley Weintraub, Evan Pugh professor of arts and humanities, author of *Disseasels* and other biographies.*

What John Barth used to allege as his reason for having moved from State College to Pine Grove Mills was that he didn't want his fiction to be considered academic novels, because they wouldn't be treated as seriously. If he was identified as a resident of a college town, he claimed, his books would automatically be classified as academic fiction. He moved, he said, so that his dust jackets could say "John Barth lives in Pine Grove Mills," and in that way he would avoid being known as a writer of academic novels.

Edward N. Lorenz will receive an honorary degree in science and engineering during the College of Earth and Mineral Sciences ceremony May 11 in Eisenhower Auditorium.

By ANDREA ELYSE MESSER
Public Information

With the realization that seemingly simple systems may be unexpectedly complex mathematically, Edward Norton Lorenz, professor emeritus, Massachusetts Institute of Technology, fundamentally changed the way scientists look at the world.

Lorenz's work in deterministic chaos not only altered meteorology, but also such fields as biology and fluid mechanics.

"Ed showed that an infinitesimal change can have large consequences," John A. Dutton, dean of the college of Earth and Mineral Sciences, said.

Dr. Lorenz's 1963 paper, "Deterministic Nonperiodic Flow," in the *Journal of Atmospheric Science*, marked the beginning of the new field of chaos theory and application, 12 years before other scientists—biologists, physicists, chemists, geologists and physicians—took up the challenge.

An analogy discussed by Dr. Lorenz—"one flap of a sea gull's wings would forever change the future course of the weather"—provided an image of minute variations creating immense effects.

Computers made Dr. Lorenz's work possible because they permit detailed examination of solutions that cannot be obtained analytically. The advent of computers, numerical simulation and Dr. Lorenz's penetrating analysis combined to show that the solutions to the equations can only be predicted for a finite period of time. For weather phenomena, the limit of predictability is about two days.

About Edward Lorenz's work

Meteorologist Edward Lorenz, professor emeritus at the Massachusetts Institute of Technology, is best known for being the first to describe "deterministic chaos" as a shaper of weather.

Dr. Lorenz's theory that "one flap of a sea gull's wings would forever change the future course of weather" provides a vivid image of how one

small act can have far-reaching effects. His discovery altered the landscape of meteorology and other sciences including biology and fluid mechanics.

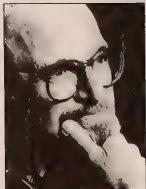
Dr. Lorenz is a fellow of the American Academy of Arts and Sciences, the American Meteorological Society and the National Academy of Sciences. He is an honorary Fellow of the Indian Academy of Sciences and an honorary member of the Royal Meteorological Society and the American Meteorological Society. He is a foreign associate of the Academy of Sciences, Lisbon; a foreign member of the Royal Society of London and the USSR Academy of Sciences, and a member of the Norwegian Academy of Science and Letters.

Dr. Lorenz has received numerous awards including the Louis J. Battaia Author's Award in 1995 from the American Meteorological Society and, in 1991, the Kyoto Prize in basic sciences from the Inamori Foundation, Kyoto, Japan. He received the Roger Revelle Medal in 1992 from the American Geophysical Union.

Trained as a mathematician, Dr. Lorenz began his meteorological career in the U.S. Army Air Corps in 1942 as a weather forecaster. He became an associate professor of meteorology at MIT in 1955, an associate professor in 1956 and professor in 1962. He served as head of the department of meteorology and physical oceanography from 1977 to 1981 and retired as professor emeritus in 1987.

small act can have far-reaching effects. His discovery altered the landscape of meteorology and other sciences including biology and fluid mechanics.

Dr. Lorenz is a fellow of the American Academy of Arts and Sciences, the American Meteorological Society and the National Academy of Sciences.



John Barth



Edward Norton Lorenz

Lecture planned

Edward Lorenz will present a public lecture, "The Ubiquity of Chaos," at 2 p.m. Friday, May 10, in Room 26 of the Hosler Building on the University Park Campus.

Recollections of John Barth

Robert G. Weaver, professor emeritus of English, former director of the writing program:

We were close friends and we did a lot of things together, like making beer. It was terrible stuff, but we made a big thing out of it. The kind he made was very explosive. I recall he would hold a bottle out at arm's length, and it would blow the cap against the ceiling and foam all over his hand. Most of the other guys had fairly tame beer, but he liked the wild stuff.

He worked very hard. He didn't want to be interrupted from his work, but he divided his life very well. He did his writing, he did his teaching, he did what he was supposed to do. But he was after big game from the start.

S. Leonard Rubinstein, professor emeritus of English, former director of the English writing option: John Barth came to the Penn State faculty the semester I was on leave. He was 24 years old, impeccably dressed,

The following stories are part of an ongoing series on auxiliary enterprises of the University, which are largely self-supporting.

Intercollegiate athletics always a winning team

By A'NDREA ELYSE MESSER
Public Information

A winning team makes us proud, creates school spirit and supplies fond memories for alumni wherever they go after graduation, but varsity sports don't only supply winning teams, they support the goals of the academic community, provide scholarships, facilities and general administrative funds.

"Intercollegiate Athletics is a \$26 million enterprise that is totally self-sufficient," Timothy Curley, director of Intercollegiate Athletics, said. "We receive no funds from the central administration, the student activity fund nor the commonwealth of Pennsylvania."

Gate receipts — from football, men's and women's basketball and a few other sports — and television broadcast rights for football and men's basketball provide 70 percent of the funds for Intercollegiate Athletics. The remaining 30 percent comes from contributions from the Nittany Lion Club, concessions, parking, media guides, programs, licensing, football bowls and the Big Ten revenue sharing agreement.

"This money supports 29 sports, 14 for women and 15 for men," Mr. Curley said. "It also supports all the facilities, personnel and administration of a varsity sports effort as large as Penn State's."

Not only does the income for Intercollegiate Athletics pay for the total operation, it also provides more than \$3.7 million in scholarship funds for approximately 400 students each year.

"We don't get a discount," Mr. Curley said. "We pay the University the full tuition amount as it applies to each student." These Levi Lamb scholarships also provide for room and board for the student athlete. Room, board and tuition are not all student athletes receive. Intercollegiate Athletics also provides \$800,000 annually for the Academic Support Center for Student Athletes, where tutors, counselors and a sports psychologist are made available.

As every undergraduate knows, the University has an exercise and sports activities requirement. Whether students fulfill that requirement with swimming, basketball, judo or jogging, their classes will be in facilities maintained by Intercollegiate Athletics and scheduled the same way any other "sporting event" is scheduled. Students in classes, intramurals and clubs use facilities maintained by Intercolle-



Teamwork

Gate receipts from every basketball game played at The Bryce Jordan Center — and every other athletic contest charging admission — generate, among other things, \$3.7 million in scholarship funds.

The 29 varsity teams

Women's basketball	Men's baseball
Women's cross country	Men's basketball
Women's fencing	Men's cross country
Women's field hockey	Men's fencing
Women's golf	Men's football
Women's gymnastics	Men's golf
Women's lacrosse	Men's gymnastics
Women's soccer	Men's lacrosse
Women's softball	Men's soccer
Women's swimming/diving	Men's swimming/diving
Women's tennis	Men's tennis
Women's indoor track	Men's indoor track
Women's outdoor track	Men's outdoor track
Women's volleyball	Men's volleyball
	Men's wrestling

gate Athletics for their programs, but shared with others.

While Intercollegiate Athletics does not receive money from the University it does pay an administrative fee to the central administration general fund each year. This assessment of 3 percent of the budget is expected to total \$646,000 for 1995-96.

When the University agreed to pay the surrounding municipalities a fee in lieu of taxes, a 50-cent surcharge was placed on all tickets priced over \$5. The more people attend football, men's or women's basketball games, the more Intercollegiate Athletics contributes to fulfilling this University obligation.

Souvenirs a source of funds for scholarships

By VICKY FONG
Public Information

When you enter a store and buy several sweatshirts sporting the words "Penn State" or "Nittany Lions," you're helping a financially needy Penn State student stay enrolled at the University.

Every officially licensed Penn State item sold nationally and internationally sends 7.5 percent of its price tag back to the University and its students. Compared to many other universities, Penn State was a latecomer in the move to officially license its name and certain affiliated images. Created in 1982 alongside the first national football championship, the program has grown tremendously, reaping more than \$2 million in 1994-95, the Rose Bowl Championship season.

Distribution of funds from 1982-1995

- General Scholarships
Levi Lamb (athletic) \$2.6 million
Academic Excellence \$3.3 million
- Endowments
Athletic Scholarships \$650,000
Academic Excellence \$1.25 million

The program directs 86 percent of the revenue into scholarship funds and endowed scholarship funds, with the rest used for administrative costs.

"The original intent of the licensing has been and remains funding academic and athletic scholarships for students," Dan Sieminski, chair of the licensing committee, said. "Since 1982, the licensing of Penn State's name and images has attracted \$8.1 million for academic and athletic scholarships. Of that \$8.1 million, \$1.9 million has been directed into endowed scholarship funds to maintain a stable source of funding in the future."

Of the endowed funds, 65 percent has been earmarked for academic excellence scholarships so many more Penn State students will continue to benefit from the licensing program.

"Certainly, the Penn State family of students, employees, alumni and supporters has made this licensing program wildly successful," Mr. Sieminski said. "And with our Big Ten membership, the recent opening of the Jordan Center and the continuing success of our athletic programs including men's and women's basketball, we are optimistic that the program will continue to grow and support students at Penn State."

Quality Expo '96

Information provided by the Continuous Quality Improvement Center

April 25, 1996

Teams celebrate quality successes

It had snowed the day before, but Mother Nature put on a bright spring dress to greet exhibitors and visitors to the April 11 Quality Expo '96.

A feeling of energy and celebration also prevailed within the Nittany Lion Inn Ballroom, where 36 booths were set up to demonstrate the results that can be achieved in all areas of the University through the Continuous Quality Improvement process.

Faculty members, staff and administrators mingled, studying video and poster displays, asking questions, carrying away handouts and sharing their own experiences with CQI. Business cards were exchanged so dialogues begun at the Expo could be pursued later in greater depth.

Sporting one of the Nittany Lion Inn's "I make the difference" buttons, President

Graham B. Spanier noted how the exhibits he had visited communicated "the excitement that goes with the progress you are making in your units and demonstrate the commitment to quality and interest in teamwork so important to the University."

Pointing out that every part of the University must be responsive to changing con-

stituent needs, Dr. Spanier emphasized the necessity of working across organizational boundaries and the role of teamwork in bringing about progress and change.

Dr. Spanier's words received a "dramatic" illustration with the introduction of *Quiet Riot*, a comedy theatre comprising two brothers who use pantomime and a variety of sound effects. In one skit, they managed in just four minutes to illustrate the 20 most significant inventions of the past 3000 years, and along the way showed the importance of team building, cooperative problem solving and communication skills.

"An expo like this shows that things can change for the better and that the way people do their work will be more enjoyable when these changes are made."

*John Brighton
executive vice president
and provost*

"We wanted to try a new way to get the CQI message across," said CQI Center Executive Director **Louise Sandmeyer**, "and judging from the enthusiastic audience response, the *Quiet Riot*'s program was highly successful."



John Brighton discusses CQI principles with an undergraduate student team member
Photo: University Photo/Graphics

After checking out the exhibitors' booths, visitors could wander out to the atrium where the Penn State Book Store had set up a table with a large selection of materials to assist in CQI planning. The atrium was also the site of a media display. Here, experts were on hand to demonstrate quality improvement software, including flowcharting and statistical models, software that is available on loan from the CQI Center, 303 Old Main.

Transportation had been arranged to bus interested participants to the Team Decision Center (TDC) at the Penn State Scanticon hotel. Two sessions were scheduled: an early morning program on process mapping and a later one on stakeholder feedback.

Planning for Quality Expo '96 was coordinated through the CQI Center with Ms. Sandmeyer; **Carol Everett**, assistant director; and a 13-member planning team. While primary emphasis was placed on recognizing the accomplishments of the various teams, planners also wanted all present to share a sense of celebration.

To this end, booths were decorated with balloons, planning

committee members signaled their identities by wearing old-fashioned straw hats and refreshments included large Q-shaped pretzels with mustard. Throughout the day, the popping of balloons announced the awarding of prizes donated by units ranging from the Centre for the Performing Arts and the Nittany Lion Inn to the Penn State Golf Courses and the Ice Pavilion.

When Expo finally closed its doors at 3 p.m., participants were rewarded with the opportunity to make their own sundaes with Penn State Creamery ice cream and to enjoy a musical performance by the Singing Lions.

"Quality Expo '96 provided an excellent opportunity for the University community to recognize the special people who are looking for ways to improve Penn State," **John Brighton**, executive vice president and provost, said.

"It helped develop a kind of excitement around their work and shed new light on what people have been doing on an everyday basis. An expo like this shows that things can change for the better and that the way people do their work will be more enjoyable when these changes are made."



About the teams

▼ PENN STATE ALTOONA

Physical Plant Supply Distribution Team

"Our CQI group decided to focus on the process of ordering and distribution of supplies, beginning in July, 1994," co-facilitator **Chuck Kormanski** said. "Over a two-year period, this has resulted in new procedures that helped us achieve greater efficiency and reduced costs."

Team members **Flo Gallagher**, **Larry Shelov**, **Barb McCartney** and **Melvin Reighard** looked at the large array of cleaning products used in Altoona's buildings and cut the total to 10. Thirteen "Solution Centers" were established to eliminate waste by dispensing measured amounts of concentrated cleaners and water.

Instead of being randomly, all cleaning supplies are now kept together in one row in the storage warehouse, and janitor closets have been secured. The once-standard five-page order form has been reduced to a single sheet, and a once-a-month order process begun.

Delivery time for supplies now takes two days or less instead of the previous average of four, and newly instituted work procedures insure that supplies will be on hand when the late-night shift comes on.

Rick Wareham was the team sponsor, with **Bill Englebrecht** and **Chuck Kormanski** as co-facilitators. **Frank Ciccarella** was team leader.

▼ PENN STATE GREAT VALLEY

Graduate Programs Administration

Produced and mailed three times yearly, Great Valley's graduate class schedule brochure plays a major role both in keeping students informed and in the campus recruiting process.

"Our charge," team leader **Marylou Delizia** said, "was to improve the course scheduling process, working on communication between the several offices involved in producing the schedule and decreasing the number of changes and errors in the brochure."

Team members **Lorraine Burke** and **Nancy Rosenbaum** described how the group developed its recommendations by flow-charting the publication process and interviewing internal and external customers. Other team members included **Jack Stein** and former staffers **Mary Shoffner**, **John Rogowski** and **Dee Bilo**.

Among its successes, the team counts arriving at a definition of steps in the schedule's production cycle, assigning clear lines of responsibility and setting up a realistic production timetable. Communication between offices was increased, new uses of technology helped eliminate duplication of efforts and proof-reading procedures were improved — with a resulting savings in the number of steps and people involved in the process.

Team sponsors were **Lynda Phillips-Madson**, **Suzanne Seiter** and **Sophia Wisniewska**.

▼ FINANCE AND BUSINESS

The Nittany Lion Inn

"I make the difference" proclaimed the lettering on the blue-and-white buttons available at this booth, neatly summarizing the inn's philosophy that each member of a work unit has a role to play in improving quality.

As part of their three-year ongoing CQI process, the inn's management and line employees are working together on a variety of projects. While two teams focus on improving communication, others are developing new training manuals for each department.

Suggestions by a team that examined housekeeping procedures have resulted in standardizing bed-making and dusting methods. Regular surveys of guest satisfaction have been instituted, with customer input sought on such issues as how to refine menu selections in the Whiskers Bar. CQI methodology is also bolstering employee satisfaction in their break room. The team's request for more dishes to choose from at mealtime is being implemented.

Housekeeping staff member **Kelly Clemons** is a big booster for CQI training. "Having a manual with specific procedures helps me do my job better," she said. "We've also improved communications. For example, on each floor we now have an employee with a beeper, so when the front desk needs to know about the status of a room, they can contact the floor directly instead of having to go through a supervisor."

The Line Employee Teams for the Inn are: Communications Focus Group, teams 1 and 2; Housekeeping Training Task Force; Maintenance Training Task Force; Front Desk Training Task Force; Dining Room Host/Hostess Training Task Force; Banquet Steward Training Task Force; Nittany Lion Inn CQI Break-room Team.

▼ COLLEGE OF THE LIBERAL ARTS

Political Science Department
Political Science 300H, Critical Reasoning in Political Science
Political Science 17W, Introduction to Political Theory

CQI principles are applied and tested in these courses, both of which are taught by **Larry Spence**.

After completing training exercises, students in the critical reasoning course are organized into four- and five-member teams and must set aside blocks of time outside of class hours to work together to complete homework assignments. "Using group processes helps improve our understanding of the textbook," **Alison Coriarty** and team leader **Sarah Grey** said.

Along with **Russell Melody Stawasser** they are a student CQI team tracking teaching performance in

They've found that in 1995 the figure of class a low of 60 percent to 70 from a high of 84 percent.

Team leader **Jonathon Hector Rubi** had sampled developed for political called "Advice for Students," the booklet includes techniques that "help you your process for learning

The authors used be interviewing individual formed well in class, be observe good processes too, can learn them." T chart to show students difficult reading materials advice on taking quizzes papers.

In addition to Mr. R. Quality Team members **McNally**, **Frank Reicin** **ciari** and **Anderson La** **Larry Spence** was both teams.

▼ FINANCE AND BUSINESS

Business Services

Chemical Management

This CQI Team has been 1992 to fulfill its charge process by which chemical supplies are acquired posed at Penn State. **Joe Bodkin**, **Maurine Conroy**, **Jim Frazier**, **Barbara Lyke** and **H. Steve Kreiser** as facilitators.

Following two years recommendations included smaller chemical containers needed basis to reduce costs associated with the disposal of unused chemicals the number of chemicals 3) establishing a University system for in-residence 4) setting up a centralized tracking system.

"We realized implementation suggestions could be ex Kreiser said, "so we decided could find a vendor who existed in partnering with now having final discussion Scientific about the possibility becoming Penn State's for laboratory chemical while providing a staffed distribution facility on an inventory management



James W. Purdum, general manager of the Nittany Lion Inn, talks about the inn's exhibit with members of the Housekeeping Training Task Force. From left, Kathy Marks, Melissa Knadle, Kelly Clemons and Katherine Grubb. Photo: University Photo/Graphics



Larry Spence, Kathryn Danksy and Linda Null discuss innovation in the classroom during the Quality Expo '95, held April 11 in the Nittany Lion Inn Ballroom on the University Park Campus.

Photo: University Photo/Graphics

The work of this CQI team is expected to result in an estimated annual cost savings of \$250,000 in product prices, and to reduce both the administrative cost of processing orders and expenditures for waste disposal.

Bill McKinnon and Betty Roberts were team sponsors; **Jim Dunlop and Jim Lettiere** served as team leaders.

▼ THE COLLEGE OF ENGINEERING

Graduate Recruiting Team

With a charge to improve the recruitment process for College of Engineering graduate students, team members after a CQI training session initiated a series of meetings with representatives from Penn State units whose policies impact on graduate recruitment.

Recruitment programs at three highly ranked engineering schools — Illinois, Purdue and Georgia Tech — were visited, and the group interviewed Penn State engineering faculty and graduate students who had accepted offers from the college.

"We also mailed questionnaires to students who had rejected us and gone elsewhere," team leader **Larry Burton** said, "and we received helpful input from the graduate coordinators in our college departments.

The team included faculty members **Lee Corao**, **George Lesieutre** and **Barbara Shaw**; staff members **Doretta Garvey**, **Sandra Johnson** and facilitator **Deb Hamilton**; graduate student **Suzanne Bennett**; and three administrators, **Dr. Burton**, **Michael Reischman** and **Chin Kuo**.

"Our report," Dr. Burton said, "offered recommendations to enhance such procedures as the initial contact with prospects, the application process and financial offers."

Responding to the team's emphasis on the importance to recruitment of visits by prospective students, the College of Engineering held an open house in January to acquaint college seniors with the opportunities available for graduate study in engineering at Penn State.

Michael Reischman was team sponsor and **Larry Burton**, team leader.

Continuous Quality Improvement Center

303 Old Main

University Park, PA 16802

Louise Sandmeyer, executive director
Carol Everett, assistant director
(814) 863-8721

Quality Circles

Transformational change

A successful organization not only has highly satisfied customers and world class products and/or services, but it must also create a high performance culture where employees believe in what they're doing.

That was the message of **Sat Bhatia** of IBM, one of the three speakers from industry to address the afternoon Quality Circle audience on "Transformational Change."

He was followed by **Bob George** of DuPont, who pointed out some paradoxes in transformational change such as cutting costs while innovating; requiring uniformity but valuing diversity; or thinking globally but acting locally. For successful change, he said, an institution must have a creative vision and then "you have to communicate, communicate, communicate your vision."

IBM quality manager **Warren Alpaugh** advised listeners to "begin by setting small objectives, and when you meet them, celebrate with your team."

"Realize," he continued, "that you are setting out on a quality journey, that the job will take a certain amount of time and that since it may change over time, you must be flexible."

Classroom innovations

The second half of the Quality Circle Program, "Innovation in the Classroom," was introduced by **John Brighton**, executive vice president and provost.

Dr. Brighton pointed out that while much attention has been focused on CQI applications in non-academic support areas such as recruiting and advising, CQI principles are also being applied at Penn State to stimulate learning in the classroom. He then introduced three faculty members who have adopted CQI techniques in their teaching.

◆ **Linda Null**, assistant professor of computer science at Penn State Harrisburg, said her goal is to assume the role of mentor, leader and coach to her students.

"As educators," she pointed out, "it's important that we listen to the voice of the students and find out what they think they need from a course. Essentially, I try to have students design the syllabus to make them become more responsible for their education."

◆ Students are "learning and doing at the same time" in classes taught by **Kathryn Danksy**, assistant professor of health policy and administration. Dr. Danksy organizes students into teams and lets them brainstorm a list of topics to come up with problems that can be worked on in class. Team members also use such CQI techniques as a fishbone chart and customer interviews to find answers to the question of why trays were not being delivered at night at Centre Community Hospital.

◆ The third speaker was **Larry Spence**, associate professor of political science and co-director of the Schreyer Institute for Innovation in Learning. Dr. Spence became interested in CQI after observing how wide the range of achievement levels was among the honor students in his Political Science 300H course.

"The telling difference was that the students who were doing well were working together in teams outside the classroom," he said.

Describing some of the things he's learned, Dr. Spence said, "You can't just throw students together and tell them to start working as a group. They need training before they can perform effectively in teams. The real value of CQI is to get students involved so they learn the process of learning."

In addition to the afternoon Quality Circle speakers, a morning program attracted participants with a demonstration of team building activities by Shaver's Creek Environmental Center staff.

Participating

STUDENT AFFAIRS
University Health Services
Medical Excuse CQI Team

STUDENT AFFAIRS
University Health Services
Student Insurance Plan/MEGA
Pharmacy Issues
Customer Comment Response

COLLEGE OF ENGINEERING
CQI Promotion and Tenure Team

COLLEGE OF ENGINEERING
Graduate Recruiting Team

FINANCE AND BUSINESS
Office of Human Resources
Human Resource Development Center Team

FINANCE AND BUSINESS
Business Services
Chemical Management Team

FINANCE AND BUSINESS
Nittany Lion Inn
Line Employees Teams:
Communications Focus Groups,
Teams 1 & 2
Housekeeping Training Task Force
Maintenance Training Task Force
Front Desk Training Task Force
Dining Room Host/Hostess Training
Task Force
Banquet Steward Training Task
Force
Nittany Lion Inn CQI Breakroom
Team

FINANCE AND BUSINESS
Office of Human Resources
Faculty/Staff Health Promotion
Wellness: CQI with the "I" on You

FINANCE AND BUSINESS
Purchasing and Accounting Departments
Purchase Order Payments Team

FINANCE AND BUSINESS
Business Services
Communication Team

**COLLEGE OF HEALTH AND HUMAN
DEVELOPMENT**
Appointment Process Team

COLLEGE OF THE LIBERAL ARTS
Faculty Search and Appointment
Handbook Team

COLLEGE OF THE LIBERAL ARTS
Political Science Department
Political Science 300H
Political Science 17W Quality Team

THE Smeal COLLEGE OF BUSINESS
ADMINISTRATION
Assessment of College Majors

THE Smeal COLLEGE OF BUSINESS
ADMINISTRATION
Business Logistics
Business Logistics 405 - Warehouse
& Terminal Management Team



Team leader Jonathan Patton, left, and other members of the Political Science CQI teams show off "G" t-shirts

Photo: University Photo/Graphics

**ENROLLMENT MANAGEMENT
AND ADMINISTRATION/
UNDERGRADUATE EDUCATION/
OFFICE OF ADMINISTRATIVE SYSTEMS**
Computerized Academic Advising
Information System Team

**ENROLLMENT MANAGEMENT &
ADMINISTRATION**
Undergraduate Admissions Office
Telephone Benchmarking Team

**ENROLLMENT MANAGEMENT &
ADMINISTRATION**
Office of the University Registrar
Graduation CQI Team

IBM/TQI GRANT
College of Education
College of Engineering
The Smeal College of Business
Administration

UNIVERSITY OF NORTH CAROLINA

PENN STATE HARRISBURG
Master of Public Administration
Enrollment Team
School of Science Engineering &
Technology

PENN STATE ALTOONA
Campus Directory Team
Physical Plant Supply Distribution
Team

UNIVERSITY LIBRARIES
Pattee Library
Acquisitions Services Self-Directed
Work Teams

HERSHEY MEDICAL CENTER
College of Medicine - Nursing
Department
Transplant Surgery Service Board
Team
CT Surgery Service Board Team
6 Medicine Nursing Team
Outpatient Surgical Suite Team
Child Psychiatry CQI Team
Adult Psychiatry CQI Team
Continuous Quality Improvement
Training Team

College of Medicine - Vice President for Administration
Worker's Compensation Claims
Process Team

College of Medicine - Human
Resources Department
Effective Guest Relations Training
Program

PENN STATE GREAT VALLEY
Graduate Programs Administration
Graduate Course Schedule

**MALCOLM BALDRIDGE NATIONAL
QUALITY AWARD**
Total Quality Council of Central Pa.

PLANNING

TEAM MEMBERS

Planning team members worked long and hard to make Quality Expo '96 even bigger and better than its three predecessors. The committee included: **Gerry Browder, Larry Burton, Jackie Esposito, Stacy Green, Judy Hewes, Linda Klimczyk, Ginny Newman, Sue Oram, Jim Purdum, Barbara Sherlock, Donna Schroeder, Karen Wagner and Jack Winter.**

The CQI Center wishes to express its gratitude to **Mimi Coppersmith Fredman and Barash Advertising Inc.**, for providing marketing advice and services.

Stories by Louise Wartik.



Students "clean-sweep" national competition

Penn State students are faring well in national competitions for much-coveted scholarships and awards.

In a clean sweep, all four Penn State nominees who competed nationally for 264 Barry M. Goldwater Scholarships have won. **Kyle A. Bernheim**, **Chandreyee Das**, **Michael J. Goller** and **Elizabeth A. Shank** were selected on the basis of academic merit from a field of 1,200 mathematics, science and engineering students nominated by their universities nationwide.

"Universities are limited to four nominations for this award, which is the top undergraduate award of its kind in mathematics, natural sciences and engineering," Mary Gage, director of the Undergraduate Fellowships Office, said. "We are thrilled that all four of our candidates won."

As part of the competition, each candidate submitted an essay on their current research.

The scholarship, established in 1986 to honor Sen. Barry M. Goldwater, covers the cost of tuition, fees, books and room and board up to \$7,000 for one or two years of undergraduate study.

■ **Kyle A. Bernheim** of State College is a sophomore majoring in chemistry and biochemistry. Her essay was "Synthetic Materials to Assist Tissue Repair."

■ **Chandreyee Das** of King of Prussia is a junior in biochemistry and chemistry and her essay was "Plant Self-Incompatibility and the Appeal of the Exotic."

■ **Michael J. Goller** of Mt. Sinai, N.Y. is a junior in molecular and cell biology. His essay was "Understanding the Mechanism of Signal Transduction in Cell Differentiation."

■ **Elizabeth A. Shank** of Orefield is a sophomore in molecular and cell biology. Her essay was "Hemoglobin Structure and Function in the Deep Sea Vent Communities."

St. Andrew's Award

Another Penn State student, **Kathryn Pruss** of Julian has received a \$10,000 scholarship from the St. Andrew's Society of Philadelphia to study at the University of Glasgow, Scotland, next year.

St. Andrew's scholarship winners are selected on the basis of academic excellence and their interest in Scottish culture and education.

Since 1957, the St. Andrew's Society has sent 106 students to the universities of Aberdeen, Edinburgh, St. Andrews and Glasgow for their junior year. Five students were selected this year.

Ms. Pruss is a University Scholar.

National Science Foundation fellowships

Eight Penn State students have won three-year graduate fellowships from the National Science Foundation.

NSF Fellows are selected in national competition on the basis of academic excellence and the promise of contributing significantly to research, teaching and industrial applications in science, mathematics and engineering. The awards are given for graduate study leading to research-based master's or doctoral degrees. A stipend of \$14,400 a year, with an additional cost-of-education allowance of \$8,600, is given to the schools they attend. Each fellow also receives a one-time international research allowance of \$1,000.

Seven of the fellows are University Scholars.

The 1996 NSF Fellows and their majors are:

■ **Michelle Brincat**, chemical engineering, will attend the University of Minnesota in chemical engineering;

■ **Jeff Caldwell**, architectural engineering, will attend Penn State in engineering;

■ **Brent Cottom**, ceramic science and engineering, will attend the University of California in materials engineering;

■ **Manish Desai**, astronomy and premedicine, will attend the University of California in ecology;

■ **Stephen Gaddy**, meteorology, will attend the University of Oklahoma in meteorology;

■ **Michael Gurven**, anthropology and math, will attend the University of Utah in anthropology and biology;

■ **Stacy Seibert**, biology, will attend The Ohio State University in genetics; and

■ **Stephanie TerMaath**, civil engineering, will attend Cornell University in civil engineering.

News in Brief

Grandparenting study

Being a grandparent can be a very important part of a middle-aged or older adult's life. Yet, little is known about what grandparents think about their relationships with different grandchildren or how their relationships with grandchildren change over time. **Karen L. Fingerman**, assistant professor of human development and family studies, is conducting a study of grandparents' feelings about their roles and the meaning of grandchildren in adults' lives.

The study seeks men and women between the ages of 45 and 60 and over the age of 70 who have at least one grandchild three years old or older. Participants will take part in an hour-long interview at a time and place convenient for them. In exchange for their time, a \$10 honorarium will be given. For more information or to take part in the study, contact Dr. Fingerman at (814) 863-0241.

Penn State Educational Office Professionals meeting

Penn State Educational Office Professionals invite you to attend a special topic meeting: "Vacation Travel Plans" at 12:10-12:50 p.m. Friday, April 26, in Room 107, Kern Bldg. The speaker will be a travel agent from Kern for Travel. Door Prizes will be given. Contact **Jenni King** (JKS@psu.edu; 865-0414) with questions. RSVPs are not necessary, everyone is welcome.

Penn State Educational Office Professionals is a professional organization whose membership consists of faculty, staff, staff non-exempt and technical services. PSEOP is dedicated to promoting professional development among Penn State's office

employees. For membership information, contact membership coordinator **Sandy McClain** at (814) 865-3900.

Get paid to eat

Full-figured and normal weight female volunteers are needed to participate in a study at the Laboratory for the Study of Human Ingestive Behavior in Henderson Building. The study involves eating meals in the lab Monday through Thursday of every other week during a nine-week period this summer. Each test meal will take approximately 30 minutes to consume and will consist of a variety of commercially available foods. No experimental or test foods will be used. Meal times are individualized to fit your schedule. Volunteers must be 18-45 years old, able to eat a wide variety of foods, non-smoking, non-dieting and not pregnant or lactating. Participants will be paid \$300 for completion of the study. If interested, please call (814) 863-8482 and ask for the study coordinator. Staff are encouraged to apply.

The principal investigator on this study is **B.J. Rolls**, laboratory director.

Volunteers needed

Healthy men between the ages of 60 and 80 are needed for a study examining immune responses to environmental stress. Subjects must NOT be taking any medication (including aspirin or ibuprofen) and will be asked to donate a blood sample. A \$20 stipend will be given. To participate, contact **Jane Daun** at (814) 865-0368. Principal investigator on this project is **Joseph G. Cannon**, professor of exercise and sport science.

Food drive

The College of Agricultural Sciences Alumni Society will sponsor a food drive May 10-17 to support the Interfaith Mission's Food Bank of the State College area. A drop-off box for the drive will be at the University Creamery during regular business hours throughout the week. The food drive is part of the Penn State Alumni Association National Service Week. Any nonperishable foods are accepted. The food bank is in particular need of tuna, peanut butter, evaporated milk, packaged beans or rice and canned juices.

For more information, contact the college Alumni Relations Office at (814) 863-2831.

HRDC course

The following course is being offered by the Human Resource Development Center. To register for the course, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

To see a list and description of other courses available, check the HRDC course catalog or log-in to the Intercom Web site from the homepage of the Office of University Relations at URL <http://www.ur.psu.edu/>.

Planning, Implementing and Navigating Change (LDR 030) Designed to help individuals plan and lead the implementation of organizational change. This program meets for two sessions, 8:15-11:45 a.m. Monday, May 13, and May 20, in 319 Rider Building; cost: \$55.

The ARTS

AT PENN STATE



Personal touch

Betye Saar signs her exhibition, "Betye Saar Tangled Roots," as she completes its installation at the Palmer Museum of Art. The exhibit is on display through July 21.

Photo: Greg Gneco

Can Film Festival

The Can Film Festival, an annual showcase of student film and video work in the College of Communications, is scheduled for Friday, April 26, and Saturday, April 27, in Schwab Auditorium. Show time both evenings is 7 p.m.

This year's format is a non-judged final screening of the best student work from the past academic year. The festival will run approximately three hours, with a short intermission. Several faculty and alumni achievement awards also will be presented.

Tickets are \$3 in advance and \$4 at the door. Tickets are on sale at all Center for Performing Arts box offices and also are available by calling (814) 863-0255.

For more information, contact Ned Faust, assistant professor of film and video, at (814) 863-1243, or Christine Templeton, director, alumni and public relations, at (814) 865-8801.

Choral Society to perform

The State College Choral Society will present the final concert of its 1995-96 season at 3 p.m. Sunday, April 28, in Eisenhower Auditorium on the University Park Campus.

Directed by D. Douglas Miller, professor of music, the society will perform with full orchestral accompaniment and will feature four well-known area soloists: Susan Bozard, soprano; Jan Wilson, mezzo soprano; Richard Kennedy, tenor; and Norman Spivey, baritone.

Tickets are \$10 (\$5 for students) and may be purchased at the Eisenhower

box office the day of the concert. For more information, call (814) 863-0255.

Odyssey Through Literature

On the next episode of Odyssey Through Literature, Leonard Rubenstein hosts Nancy Tischler, Penn State professor of English and humanities, in a discussion of Bruce Sutherland's mission to advance Australian literature.

Tischler and Rubenstein also discuss the manner in which many Americans view other countries.

Odyssey Through Literature is produced at WPSX-TV as a continuing education service of Penn State's Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5FM.

Exhibit in Pattee

An exhibition of works by Susan C. Struble will be on display in Pattee Library's Lending Service Gallery from May 1 through 31.

Although her work is real-istic, she tries to transcend the object and focus on colors, forms, shapes and lines.

Ms. Struble studied art in Penn State after graduating from Carleton College in 1960. Drawing and painting are her hobbies as she continues a volunteer career in art therapy.

Country music star in Williamsport

New country singer John Berry, whose crystalline vocals are among the most highly revered in Nashville, will bring

UNIVERSITY PARK CALENDAR

APRIL 26 - MAY 11

SPECIAL EVENTS

Friday, April 26
The Can Film Festival, 7 p.m., Schwab Auditorium. An annual showing of student film and video work in College of Communications. Also April 27. For tickets, call (814) 863-0255.

Friday, April 26
The Penn State Thespians, 7 p.m., 102 Kern. Performance of "Snow White and the Seven Dwarfs." Admission is free. Also April 27 at 10:30 a.m.

Saturday, April 27
Shaver's Creek, 10 a.m. Picture Perfect Walk. Call (814) 863-2000.
Gallery Talk, 1 p.m., Christoffers Lobby, Palmer Museum. Debra Greenleaf on "An Installation by Betye Saar."

Sunday, April 28
State College Choral Society, 3 p.m., Eisenhower Auditorium. Presenting its final concert of 95/96 season. For tickets, call (814) 863-0255.

Saturday, May 4
Bryce Jordan Center event: Royal Hand-nelson Circus, 10 a.m., 2:30 p.m., 7:30 p.m. For tickets call (814) 865-5555. Also May 5 at 2:30 p.m. and 7:30 p.m.

Friday, May 10
Public lecture, 2 p.m., 26 Hosier Bld. Edward Lorenz on "The Ubiquity of Chaos."

Saturday, May 11
Entomology program, "Catch the Bug," 10 a.m., 101 ASI. Insects Springing Forth. Springtime walk.

SEMINARS

Friday, April 26
Physics, 2:30 p.m., S-5 Osmond Lab. K. B. Whaley on "Clusters - From Nanocrystals to Superfluids."
Ecology, 3:35 p.m., 101 ASI. Chad Buckley on "Community Structure and Productivity of a Naturalized Pasture Under Six Management Scenarios."

Monday, April 29
Atomic and Molecular Physics, 3:30 p.m., 339 David Lab. Boris Schraiman on "Modelling the Physics of the 'Colossal' Magnetoresistance Materials."

Thursday, May 2
Veterinary Science, 2:30 p.m., 116 ASI Bldg. Jack Vanden Heuvel on "Regulation of Gene Expression by Peroxisome Proliferators."

Monday, May 6
Continuing and Distance Education, noon, 106 Mitchell Bldg. James Ratcliff on "Building New Learning Environments and Implications for Faculty."

his red-hot list of hits to the Community Arts Center in Williamsport — part of the Pennsylvania College of Technology — on Wednesday, Aug. 28. Showtime is 7:30 p.m.

John Berry, nominated for a Grammy for Best Male Country Vocalist, has produced such hits as "Your Love Amazes Me" and "Standing on the Edge of Goodbye." His Williamsport show will also feature opening band Jim and Kristin Hull's North Country.

Tickets are \$9 in and \$30.50. For more information, call the center at (717) 326-2424 or (800) 432-9382.

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Sandhya Dwarkadas, speaker.

CONFERENCES

■ Indigenous Knowledge 1996, The Nittany Lion Inn. Through April 27.
History and Philosophy of Mathematics, The Penn State Scanticon. Through April 28.

Monday, April 29
The Conduct Disordered Child, The Penn State Scanticon.
Microfile Workshop, The Penn State Scanticon.

Advanced POLEX, The Penn State Scanticon.

Tuesday, April 30
Buyer/Planner Seminar, The Penn State Scanticon.

Group Counseling with Children and Adolescents, The Penn State Scanticon.
Settleability and Loss of Solids and Nitritification, The Penn State Scanticon.

EXHIBITS

HUB

Art Alloy Panels and Cases: Central Pennsylvania Scholastic Art Competition, through May 12.

Formal Gallery:
"Three Ring Circus," a three-man sculptural exhibit. Through May 3.

Kern

Kern Panels:
■ Greg Gneco Photography. Based on a 1994 trip to Cuba and illustrates the life of the people in this proud country. Through May 12.

Kern Cases

Diane Maurer Marbled Paper: collages, books and wearable art. Through May 12.

Palmer Museum

"Recent Gifts: The Jack Bershad Poster Collection," through June 2.

"Betye Saar: Tangled Roots," through July 21.

■ "Work: An Archaeology of the Industrial Age: Photographs of Sebastião Salgado," through June 9.

Pattee

Lending Services Gallery and West Wall galleries:

Spectrum, student art work. Through April 30.
Works by Susan C. Struble, semi-realistic with focus on colors, forms, shapes and lines. May 1 through May 31.

Zeller Gallery

MFA Exhibition — Mark Hain and Charlotte Earley, May 4 through May 10.

MFA Exhibition — Nancy Brassington, through April 30.

MFA Exhibition — David Pier, through April 30.

■ Reflects an international perspective

Spring films

"Fargo," a murder mystery from the makers of "Raising Arizona" and "The Hudsucker Proxy," will be shown at 8 p.m. April 26, 27 and 28 and May 1 and 2, at the Community Arts Center in Williamsport, part of the Pennsylvania College of Technology.

"Nixon," the Oliver Stone drama starring Anthony Hopkins in the title role, will be shown at 7 p.m. May 3, 4, 8 and 9 in the Community Arts Center. For more information, call the box office at (717) 326-2424.

Partings

Hail to the director

Longtime Blue Band director to put down his conducting baton

By MARY ANNA MILES
College of Arts and Architecture

Ask anyone in Pennsylvania which is the best band in the land, and the answer most often heard is the Penn State Blue Band. And who's been the leader of that band for the last 21 years? Ned C. Deihl, who arrived at Penn State in 1961 expecting to spend one year and has, as he puts it, "... been around for 34."

Dr. Deihl, who plans to retire this June, is only the fourth person to have led the Blue Band — which will be marching for 100 years in 1999. When Penn State director of bands James Dunlop died suddenly in 1975, Dr. Deihl, who was serving as the associate director, stepped into the director's spot to ensure the tradition of musical excellence would continue.

Just as his predecessors did, Dr. Deihl insists that musicianship comes first.

"I want our shows to be remembered for the quality of the sound, not necessarily the intricacy of the drills," he explained. "That doesn't mean, however, that there's no fancy footwork demanded from the musicians."

"Ned designed the Floating LIONS pregame show for the band. When it debuted in 1965 it was considered by many to be groundbreaking," Russell Elliott, who marched in the silk line in 1983 and was a silk assistant from 1988 to 1991, said. "The band still uses the Floating LIONS and audiences are as intrigued in the '90s as they were in '65."

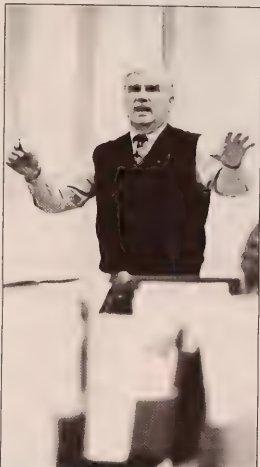
The Floating LIONS formation is an intricate set of moves and maneuvers that allow the performers to spell the word "LIONS" while playing, facing the West stands. As they march down field playing "Hail to the Lion," they manage to change their formation to spell "LIONS" for fans in the East stands — a move that appears simple but requires a great deal of planning and precision. In the '60s, Dr. Deihl carefully mapped out the positions using graph paper. Today, a lot of intricate moves by performing bands are mapped out on computers.

But it's not just innovation on the field that this full professor of music can take credit for. He is a pioneer researcher in computer-assisted education having directed two research projects funded by the U.S. Office of Education. He also co-directed a funded research project involving children's music concepts. This was during the late '60s and early '70s reinforcing one alumnus' opinion that "Ned is always three days ahead of the rest of us. A really good teacher."

During his Penn State career, Dr. Deihl played a large role in the expansion of the band programs. The Blue Band has grown from 96 to 285 members and has performed at 26 bowl games.

"We've gone from being a three-bus band to a seven-bus band," he quietly admitted.

Also during the past three decades, Dr. Deihl instituted the popular Bandorama Show and initiated a series of Blue Band recordings. He's also conducted the Symphonic Band, which has played at the annual Pennsylvania Music Educator's Association convention and has toured Pennsylvania.



Retiring

Ned C. Deihl, only the fourth person to have led the Blue Band, is retiring in June. In his retirement, he will continue to play with the Altoona Symphony and to conduct the State College Municipal Band.

Photo: Greg Grieco

To provide the chance for any interested Penn State student to have a band experience, he added a third concert band to the program, and to further help students participating in band he endowed a new scholarship, the Ned C. and Janette M. Deihl Band Scholarship.

What advice does this band leader offer aspiring musicians?

"Practice, practice, practice."

When in the fourth grade Dr. Deihl started clarinet lessons. He says he loved it and practice came easily. Today he plays with the Altoona Symphony, something he plans to continue throughout his retirement. Another activity he plans to continue is conducting the State College Municipal Band.

When September rolls around and Beaver Stadium fills, Dr. Deihl says he will be in the stands watching the Floating LIONS formation and holding his breath as the drum major flips and, just as the rest of us do, enjoying the Blue Band show.

Environmental Health and Safety director retires

Howard O. "Buzz" Triebold has retired as director of Environmental Health and Safety after 38 years of service.

Over the years, Mr. Triebold has been involved in many committees, activities and professional organizations both inside and outside the University. In 1973, he assisted in the start up of Penn State Eco-Action efforts; he has served on the board of directors for the State College Chapter of the American Red Cross and has served as an instructor for both standard and advanced first-aid courses, where he instructed more than 1,000 individuals in life-saving techniques; he was elected to two consecutive terms as chairman for the Campus Safety Association, an organization of more than 700 representatives from colleges and universities in the United States and Canada; and since 1968, he has been an instructor in cardio-pulmonary resuscitation for the American Heart Association.

In addition, Mr. Triebold has provided safety training for employees of West Penn Power Co., the Mountaintop Unit of Centre Community Hospital and the State College Area School District. On his own time, he coordinated the first aid teams for most public events at the University and was instrumental in the creation and coordination of the University's Hazmat Team, a hazardous materials team which responds to calls in the Centre region.

Before coming to Penn State, Mr. Triebold drove a semi-tractor trailer cross country for more than five years. He received his undergraduate degree from Penn State in 1958, just 15 days after joining the University safety staff.



Howard O. Triebold

Engineering aide retires after 38 years of service

Joseph Johnstonbaugh, engineering aide in the Bio-mechanics Laboratory, has retired after 38 years of service at the University.

He spent 21 years working at the lab, where he designed and constructed experimental equipment for research projects. One project Mr. Johnstonbaugh worked on involved designing a computerized running shoe that calculated the number of miles a runner had run. More recently he was involved in a project that uses magnetic resonance imaging (MRI) scans to study the effects of pressure on the spine.

Earlier, he worked in the Dairy and Animal Science and Electrical Engineering departments for 17 years.

His retirement plans include continuing to work with the National Hockey League, for which he designed the timing device system used in the skills competition before the NHL all-star game. He also plans to travel.

Awards

Coal company owner, '67 alumnus wins Philip Mitchell award

George R. Desko of Latrobe, who graduated from Penn State in 1967 with a bachelor's degree in mining engineering, has been named the 1996 recipient of the Philip Mitchell Alumni Service Award.

The award was established in 1980 by Elizabeth and Philip P. Mitchell to recognize an alumnus, alumna or friend of Penn State who has contributed significantly in the area of public service through sharing or volunteering time, talents and resources on behalf of the University.

Each year the Mitchells present a cash gift to the University in recognition of the award, and because Mr. Desko is this year's recipient, he will decide how the money is to be used. He said he plans to award the money to the College of Health and Human Development's dance program in support of Orchesta, a University dance company.



George R. Desko

Mr. Desko is president and owner of Canterbury Coal Co., the largest privately owned coal producing company in Pennsylvania. While at Penn State, he was a member of the Student Society of Mining Engineers. He later earned a master's degree at West Virginia University, and is currently a member of the Nittany Lion Club, the Penn State Alumni Association, the American Mining Congress and the American Institute of Mining Engineers' Society of Mining Engineers.

Since graduating, Mr. Desko has continued his involvement with Penn State. He established the College of Earth and Mineral Science's Constituent Alumni Society and served as the organization's president for five years.

He co-founded the Jesse F. Core Memorial Scholarship Fund for mining engineering students and works with many of those students as a mentor.

Engineering Society honors outstanding teaching, research, advising and service

Each year the Penn State Engineering Society (PSES), an alumni constituent society, honors outstanding teaching, research, advising and service among the faculty and staff of the College of Engineering. Award recipients were nominated by their respective departments and selected by a panel of peers and society representatives. Honorees for 1996 follow:

Premiere Teaching Award

John M. Cimbala, associate professor of mechanical engineering. Dr. Cimbala has been instrumental to the continuous development of the college's fluid mechanics laboratory which he helped develop. He is also responsible for having created a graduate sequence in fluid mechanics. Most notably, during the past year he has developed home pages on the World Wide Web for students in several of his classes.

Premiere Research Award

Gary H. Koopmann, professor of mechanical engineering and director of the Center for Acoustics and Vibration, has developed a broadly accepted theory and methodology for the creation of quiet structures that reduce excess vibration and improve acoustics.

John M. Tarbell, professor of chemical engineering and director of the Physiological Transport Studies

Lab, is widely recognized for his research contributions, primarily in the area of cardiovascular fluid mechanics and mass transport.

Advising, Teaching and Research awards

■ **Advising:** Brian J. Gilmore, associate professor of mechanical engineering, and Catherine M. Harmonosky, associate professor of industrial engineering, received the PSES Outstanding Advising Awards for the University Park Campus; Patrick Cronin, instructor of engineering at the Penn State New Kensington Campus, and Harold Groff, assistant professor of engineering at Penn State Wilkes-Barre, were the Commonwealth Educational System recipients.

■ **Teaching:** Receiving the Outstanding Teaching Awards for University Park this year were Charles E. Bakis, associate professor of engineering science and mechanics, and Jeffrey S. Mayer, assistant professor of electrical engineering; Sohail Anwar, assistant professor of engineering at the Penn State Altoona Campus, and John Sokol, associate professor of engineering at the Penn State Fayette Campus, are the CES recipients.

■ **Research:** Recipients of the Outstanding Research Awards are recognized and rewarded for accomplishments in advancing the frontiers of

knowledge. These research awards honor individuals who have brought recognition to themselves, the college and Penn State. Awards were conferred on the following individuals this year: James G. Brasseur, associate professor of mechanical engineering, James K. Breakall, associate professor of electrical engineering, Rangachar Kasturi, professor of computer science and engineering, Akhlesh Lakhtakia, associate professor of engineering science and mechanics, Lyle N. Long, associate professor of aerospace engineering, and Kenji Uchino, professor of electrical engineering.

Service and Staff Awards

■ **Service:** Joseph M. Perez, adjunct professor of chemical engineering, was honored with the Distinguished Service Award, which recognizes and rewards a current or former faculty member, an alumnus or friend who has donated time, expertise and energies in the form of outstanding and special service to a department, unit or to the college.

■ **Staff:** The PSES Staff Award recognizes and rewards outstanding service by staff employees in the College of Engineering. Honored this year were Brenda S. Chambers, staff assistant to the Department of Mechanical Engineering, and Robert C. Houtz, coordinator of engineering facilities for the dean's office.

Two awarded grant from NSF

Martin A. Simon, associate professor of mathematics education, and Ron Tzur, assistant professor of education in the College of Education, have been awarded a four-year, \$1,040,829 grant from the National Science Foundation for their proposal, "The Mathematics Teacher Development (MTD) Project."

A major reform in mathematics education is under way, heralded by the National Council of Teachers of Mathematics' *Standards*, published in 1989. The MTD research project is designed for detailed study of the development of pre-service and inservice mathematics teachers as they make the transition from conventional notions of mathematics, learning, teaching and classroom practices toward conceptions that are consistent with current reform principles.

The MTD project will offer teachers and prospective teachers a cutting-edge teacher development program as a context for studying teacher development.

As part of the unique, three-year instructional component, prospective teachers at Penn State will learn collaboratively with State College elementary and middle school teachers in a series of five mathematics education courses.

Three faculty win teaching award

Lisa Williams Walton, Jeffrey M. Sharp, and Giuseppe Labianca are the winners of the 1996 Fred Brand Jr. Awards in The Smeal College of Business Administration. The awards honor undergraduate teaching and advising and were created through the generosity of Penn State alumnus Fred Brand Jr. (BA '32), Pittsburgh, an insurance executive. The awards are based on nominations from Smeal College students and faculty members, with final selections made by a joint student-faculty-staff committee. This year, Dr. Williams Walton, an assistant professor of business logistics, was recognized for outstanding undergraduate teaching. Dr. Sharp, associate professor of business law, was honored for outstanding undergraduate advising. And, Mr. Labianca, a doctoral student in management and organization, was cited for outstanding graduate student teaching. Dr. Williams Walton was the winner of the Brand advising award in 1995.

■ Arbor Day

\$100,000 allocated to replace storm-damaged landscaping

Penn State plans to celebrate Arbor Day tomorrow by allocating \$100,000 over two years to replace storm damaged plantings on the University Park campus.

John Joseph, our senior landscape architect, has prepared an initial plan for tree and shrub restoration, which we will divide into four plantings to ensure that we can maintain them as they are taking root," William J. Anderson Jr., assistant vice president for physical plant, said. A variety of trees will be planted on campus to replace the more than 140 trees removed so far and about 10 to 20 shrubs will be replaced in each of the next spring and fall planting seasons.

The Office of Physical Plant is working with the University Tree Commission on actual species selection and location, taking into consideration hardness, site conditions, tree characteristics, landscape maintenance and preserving the integrity of the campus landscape plan.

The University also plans to replace varieties that are important to teaching. Courses in landscape architecture, horticulture, landscape contracting and other subjects use the campus as a living laboratory.

"We are thrilled that the president has put such high priority on the landscape of our campus," said Mr. Joseph. "These funds will help support the teaching needs of the academic community and ensure that the Penn State campus continues to be a place of beauty and attraction to visitors and prospective students alike for generations to come."

President **Graham B. Spanier** will announce the \$100,000 commitment to the landscape restoration project at the joint Penn State-Borough of State College Arbor Day celebration on Friday, April 26, at the foot of the mall.

The borough is celebrating the 11th straight year of its designation as a "Tree City U.S.A." in recognition



Help is coming

The University is allocating \$100,000 over a two-year period to replace plantings damaged during severe winter storms.

tion to its commitment to the "urban forest." Borough Arborist **Alan Sam** and Mayor **Bill Welch** will join Dr. Spanier at the podium to salute the many school children who will also be there to begin their Arbor Day projects.

Penn Staters

Marce Abrams, associate professor of forest ecology/physiology, was named associate editor of the journal *Trees—Structure and Function* for a four-year term.

"Vesper," a work for solo piano by School of Music composition instructor **Paul Barsom**, will receive several performances in the United States. The piece will be performed by piano soloist **Mia Kim** in a concert series which includes performances in Duluth, Minn.; Willmar, Minn.; Allentown, Pa.; Stamford, Conn.; and Clinton, S.C.

"Vesper," was originally written for pianist **Kim Bova** of Santa Barbara, Calif., and is in three parts: "Fogs and Winds," "...Off the Inland Desert" and "Night-Blooming Jasmine." It has been performed throughout the United States and abroad.

Barrett Cowen, associate professor of veterinary science, received a Best Paper rating for "Inclusion Body Hepatitis: Clinical and Pathological Features, Etiology, Diagnosis and Prevention and Control" at the 14th Latin American Poultry Congress in Santiago, Chile.

Joy Dunbar, program manager for the Pennsylvania Rural Leadership Program in agricultural economics and rural sociology, received a commen-

dation from the Alabama Legislature for her work in forming the Alabama-Pennsylvania Leadership Ambassador Program, which tied Penn State's rural leadership curriculum to Auburn University's Leaders Program.

Joy Ellwanger, research support technician in veterinary science, was elected 1996 chair of the Pennsylvania State Board of Veterinary Medicine.

Michael Foster, research associate in entomology, has been named coeditor of the Elsevier scientific journal *Computers and Electronics in Agriculture* for a two-year term. He will edit all North American submissions.

Todd Starr Palmer, instructor in management at Penn State Erie, The Behrend College, presented the keynote speech at the 1995 annual meeting of the Canadian Bar Association, Corporate Counsel Section, held in Winnipeg, Manitoba. Excerpts of his talk, "Corporate Counsel - The New Strategic Player," were reprinted in *Law Times*.

Rama Radhakrishna, research associate in agricultural and extension education, has joined the editorial board of the *Journal of International Agricultural and Extension Education* for a two-year term.

Shirley

continued from page 1

resented minorities also is up. The number of degrees granted to minority students has increased and the time-to-degree is less than the University-wide average for both the master's degree and the doctorate.

Funding for graduate fellowships also hit record-high levels throughout the University. Areas of study in which funding from outside sources has traditionally been small or non-existent have been enhanced along with areas

where funding is more readily available. Innovations, such as the 10 new tuition fellowships for graduate students in the liberal arts, have enabled that college to recruit the best students more aggressively.



David A. Shirley

Dr. Shirley also set in motion the process that has led to the establishment of the Life Sciences Consortium (LSC). The LSC will help emphasize team approaches in graduate education and will encourage faculty members in the University's life science units to regroup themselves across colleges and disciplines when appropriate.

In technology transfer, Penn State has maintained its position as the No. 1 public university in the nation in industry-sponsored research. Dr. Shirley championed a global perspective in the import and export of technology. The first phase of Penn State's Research Park was completed on its watch and the second phase is being aggressively pursued.

In returning to California, Dr. Shirley will be going back to the area he had made his home since graduate school. He earned his Ph.D. in chemistry at the University of California, Berkeley in 1959 and was appointed to the faculty. He rose through the ranks, becoming a full professor in 1967, and served as department head from 1971 to 1975. He maintained an active research program in electron spectroscopy and his accomplishments won him election to the National Academy of Sciences in 1978. He was named to the American Academy of Arts and Sciences in 1980.

From 1975 through 1989, he was associate director and then director of the Lawrence Berkeley Laboratory. Lawrence Berkeley is a multiprogram national laboratory operated by the University of California for the U.S. Department of Energy.

He has been honored with the California Section Award of the American Chemical Society and the Ernest O. Lawrence Award of the U.S. Atomic Energy Commission.

He is a fellow of the American Physical Society and of the American Association for the Advancement of Science.



SHELF

Edwin L. Herr, Distinguished Professor of education, with co-author **Stanley Cramer** of the State University of New York at Buffalo, have published the fifth edition of their book, *Career Guidance and Counseling Through the Lifespan. Systematic Approaches*. This 787-page book, published by Harper Collins, has been cited as the most widely used book in career guidance and counseling in the United States and abroad.

The book places global, social, political and economic trends into contemporary perspective as they influence the context of the occupational structure in the U.S. and other nations, the language and organization of work and the types of problems that arise for individuals in the choice of, preparation for and adjustment to work. Particular emphasis is given to issues such as unemployment, the globalization of the workforce, the importance of advanced technology and rising educational requirements in the workplace.

Albert Jarret, professor of agricultural engineering, has published *Water Management*, a text explaining a wide range of water management methods. The book is published by Kendall/Hunt Publishing Co., Inc.

A profound shift is under way in how the citizens of American cities and communities view themselves and their media outlet — especially the newspapers they read, according to **Jack Lauterer**, assistant professor of journalism.

In his new book, *Community Journalism: The Personal Approach*, published by Iowa State University Press, Professor Lauterer asserts that "Community is a hot topic in the '90s, especially in terms of local news."

Community newspapers, which he describes as including weeklies, semiweeklies and small dailies with circulations up to 50,000, are "uniquely positioned to take advantage of this wave of national interest in all things related to communities and local affairs."

Community newspapers have gained readership even as the figures for many major metro dailies have plummeted.

"With strong local coverage and a neighborhood, open-door policy, small papers are able to keep the kind of reader loyalty you just don't see for online services, TV or big papers with security guards blocking the way to the newsroom," he said.

The author intends the textbook to also serve as a "survival manual/handbook for those already in the trenches." He has a companion instructor's manual to the book due out in spring.

E. Willard Miller, emeritus professor of geography, **S. K. Majumdar** of Lafayette College and **F. J. Brenner** of Grove City College are co-editors of *Environmental Contaminants, Ecosystems and Human Health* published by the Pennsylvania Academy of Science.

Ever since the industrial and agricultural revolution humans have been discharging contaminants into natural ecosystems, which not only adversely impact these systems but also human health. Many of these issues are now major public policy frontiers in the 1990s. The solution to these problems centers on critical decision processes in both advanced and Third World countries. Of the 34 chapters, 12 address the impact of contaminants on ecosystems and 10 the impact on human health. The final 12 chapters provide case studies on the effects of contaminants on human health with an analysis and assessment of environmental problems.

Dr. Miller and Peter Gould of the Department of Geography and **Raja V. Ramani and Robert L. Frantz** of the Department of Mineral Engineering were contributors to the book.

Michael Moore, associate professor of education and academic director of the American Center for the Study of Distance Education, along with co-author **Greg Kearsley**, has published a new book, *Distance Education: A Systems View*.

Produced by Wadsworth Publishing Co., this book is designed to synthesize all key concepts, issues, theories and scholarly research on distance education. It takes a unique systems perspective to illustrate how the many elements of a distance education program — content, design, communications, interaction, learner environments, and management — fit together. Through this systems model, readers learn to better understand not only what distance education is, but also how to recognize a system of good distance education.

Contents include the fundamentals, scope and historical context of distance education; course design and development; teaching and tutoring; administration, management and policy; international perspectives; and the transformation of education.

Gary L. Mullen, professor of mathematics, is co-author with **Peter Shiu** of the University of Nevada of a book titled *Finite Fields: Theory, Applications, and Algorithms*.

The book is a reference for applied and research mathematicians as well as specialists and graduate students in information theory, computer science, and electrical engineering. It has been published by the American Mathematical Society in its series "Contemporary Mathematics."

Alan Michael Parker, assistant professor of English and creative writing at Penn State Erie, The Behrend College, has published a book, *The Routledge Anthology of Cross-Gendered Verse*, through Routledge Books of London and New York.

The book, co-edited with **Mark Willhardt** of the University of St. Thomas, presents seven centuries of poems in which women write in the voice of men, and men in the voice of women, as well as a critical introduction.

Jeff Pinto, assistant professor of management at Penn State Erie, The Behrend College, is the author of *Power and Politics in Project Management* published by the Project Management Institute, and *What Made Gerie Callan?* *Lessons from Project Failures*, co-authored with **O.P. Kharbanda** and published by Van Nostrand Reinhold, New York. Both are due out this spring.

The German translation of the book, *Statistics and Truth: Putting Chance to Work*, by **C.R. Rao**, holder of the Eberly Family Chair in Statistics and director of the Center for Multivariate Analysis, has been published by Prentice Hall Verlag GmbH, Munich, Germany. The book traces the history of statistics from primitive times to its uses in the modern era in government, business and science. It discusses philosophical issues, including the nature of creativity, connected with the creation of new knowledge based on empirical evidence.

The book was first published in English in 1989 by the Council of Scientific and Industrial Research in India and then reprinted in the United States. The book has been translated into Japanese, Spanish and Polish.

Jay Stauffer, professor of fishery science in the School of Forest Resources, is the author of *The Fishes of West Virginia*, a text outlining the taxonomy and status of the state's fish species. The book is published by the Academy of Natural Sciences in Philadelphia.

Frank Swetz, professor of mathematics and education at Penn State Harrisburg, is the senior editor of *Learn from the Masters* published by the Mathematical Association of America, 1996. *Learn from the Masters*, a collaborative effort by 20 mathematicians from 12 countries, is designed to assist college and secondary school teachers in using the history of mathematics in the classroom. The book provides readers with the historical ideas and insights which can be immediately applied in the classroom.

Articles in the book cover such fields as trigonometry, mathematical modeling, calculus, linear algebra and celestial mechanics. Also included are articles of a somewhat philosophical nature, which give general ideas on why history should be used in teaching and how it can be used in various kinds of special courses.

A mechanical engineering textbook written by **Stephen R. Turns**, professor of mechanical engineering, is the first comprehensive introductory text book on combustion targeted to senior undergraduate and first-year graduate-level students.

It also has a special *Penn State* twist. In the preface of *An Introduction to Combustion: Concepts and Applications*, Dr. Turns uses the first letter of exactly 13 paragraphs to spell out "Hail to the Lion."

Published as part of the McGraw Hill Series in mechanical engineering, the text is the first to present the essential theory and background material helpful for understanding the more complex literature on combustion. It focuses on desirable combustion, with examples and applications that relate primarily to propulsion and stationary combustion devices, but also discusses combustion-generated pollutants and control.

A distinctive feature of the text is its flexibility. Using varying combinations of chapters, instructors can use the book to develop courses ranging from an introductory overview of combustion to vaporization theory to the treatment of combustion-generated pollutants.

Dr. Turns designed the book to provide "a successful bridge between the basic undergraduate thermodynamics and advanced treatments of combustion." Examples that relate theory to practical applications and real-world problems make the book useful to practicing engineers as well as upper-level students.

The book also features review questions and problems within each chapter, software that calculates thermodynamic properties of equilibrium combustion products and codes that calculate constant pressure and constant volume adiabatic flame temperatures.

Steven H. Zarit, professor of human development in the Department of Human Development and Family Studies and assistant director of the Gerontology Center, is co-author of *Profiles in Caregiving: The Unexpected Career*.

The book describes the lives of people who care for family members with Alzheimer's disease or other forms of dementia. It follows the husbands, wives, daughters and sons who have become caregivers for their siblings, parents and spouses over a four-year period of time. It explores the stresses and difficult adjustment of caregiving and how people adapt to the challenges and transitions they encounter.

The authors look at caregiving as an unexpected career that has predictable phases and turning points, with an impact that can last after in-home care is over. They examine the five major phases of caregiving: becoming a caregiver; in-home care of the patient; institutional care; the death of the patient; and starting over.

The book, published by Praeger, is the first to explore the issues associated with effective caregiving for dementia patients over a sustained period of time.

Effectively managing a classroom is harder than it used to be

By PAUL A. BLAUM
Public Information

School teachers constantly shift from teaching mode to a management mode in the classroom, but the question is how to do it routinely and effectively without resorting to mass regimentation.

"The days are over when the teacher commanded respect simply by being the teacher," James Levin, affiliate assistant professor of education and senior Division of Undergraduate Studies programs coordinator, said. "Now, teachers have to know strategies for maintaining a climate where young people can learn and where disruptive student behavior is kept at a minimum."

"We believe that effective classroom management is based on two principles," James F. Nolan, associate professor of education, said. "First, prevention of discipline problems is more important than reacting to the problems after they occur. Second, teachers can't control anybody's behavior but their own. All they can do, ultimately, is influence a student's choice of behavior by changing their own behavior."

Drs. Levin and Nolan are co-authors of *Principles of Classroom Management: A Hierarchical Approach* (Allyn-Bacon). Both are former high school teachers, and Dr. Nolan was also a high school guidance counselor.

For teachers, the best way to deter discipline problems is to be the most effective instructor they can be, Dr. Levin said.

"There is unquestionably an increase in disrespectful and even violent behavior in schools," Dr. Nolan said. "What is happening outside the schools is spilling into the classroom. Schools mirror society at large. The more violence in society, the more violence in the schools."

More than ever before, teachers deal with students



James Levin, affiliate assistant professor of education and senior Division of Undergraduate Studies programs coordinator, and James F. Nolan, associate professor of education, say teachers must balance their own self-esteem with that of the students' to keep the classroom running smoothly.

Photo Greg Grieco

damaged by dysfunctional families, divorce and poverty. Furthermore, because of the pervasive influence of television and movies, students are drawn to negative role models who seem to glorify physical force and immorality. Teachers have no influence over any of these forces in society.

When disruptive behavior occurs in class, teachers must avoid taking it personally, Dr. Levin said. They cannot let their self-esteem be based solely on their chemistry with students.

"Teachers also need to know which management techniques have to be exercised first," Dr. Levin said. "There's a hierarchy of responses. When a teacher throws a student out of the classroom at the first sign of misbehavior, then that teacher has abandoned every other option for managing that student."

Effective teachers maintain a healthy equilibrium between their own self-esteem and that of the student. They understand that chronically disruptive students have negative self-images, with failures greatly outnumbering the

successes. Well-adjusted students see themselves more positively, with successes greatly outnumbering their failures.

"Punishing troublesome students with detention, swats, public reprimands and trips to the principal's office only adds to the pile of failures," Dr. Nolan said. "People do not learn positive behaviors by being punished."

"Self-esteem consists of four components: significance, competence, virtue and power," Dr. Levin said. "Problem students feel their lives have little or no significance; they do not feel socially or academically competent; and they do not have a sense of worthiness or virtue. All the above prevent them from being joiners and volunteers."

Thus, in trying to hang on to the little self-esteem they have, students are left with only one realizable goal: power. Their use — or misuse — of power to gain attention is what causes them to be disruptive.

"When teachers person-alize students' behavior, their self-esteem also suffers," Dr. Nolan said. "They too lose a sense of

significance, competence and virtue, with the result that they too fall back on power. The upshot is a confrontation between student and teacher, which benefits no one and only magnifies the effects of disruptive behavior."

Teachers should first give students the opportunity to control themselves, Dr. Levin said.

"There are many techniques that accomplish this, including giving students choices. With chronically disruptive students, the teacher can look them in the eye and say to them privately, in an assertive manner, 'It's your choice how you behave in class. It's also your choice as to the consequences of your behavior,'" he said.

"When disciplining kids eats up too much time, the teacher has to ask, 'Am I causing the problem?' If the student is indeed the source of the problem, then the teacher has to take into account the whole group and begin to consider removal of the student," Dr. Nolan said. "The right of the student has to be balanced with the rights of the whole group."

Family splits affect fate of immigrants

By SCOTT TURNER
Public Information

A study of Asian and Latin American immigrants shows that as groups spend more time in the United States, an increasing percentage of their children live in single-parent families, particularly Latinos, and that poverty and one-parent households go hand-in-hand.

The finding indicates how difficult it could be for future generations of some U.S. immigrants to improve their economic status. It also indicates that assimilation should no longer be viewed as a process where every segment of each succeeding generation does better.

The study was conducted by two University sociologists, Nancy Landale and Sal Orpessa, who examined 1990 U.S. census data on 1.2 million children. About 15 percent of all U.S. children are first- or second-generation immigrants. The origins of most of those children are in Asia or Latin America.

The researchers describe a striking increase in the prevalence of single-parent families across Latino generations. For example, Mexican-American children in single-parent families increase from 23 percent in the first generation to 39 percent in the second generation. Cuban-American children in single-parent families increase from about 25 percent in the first generation to 50 percent in the third generation.

This situation greatly complicates the long-term outlook of Latino immigrant children, Dr. Orpessa said. Children whose families have lived in this country for more generations may have parents with better positions and higher incomes, but access to those resources is often limited when family disruption occurs, he said.

Indeed, the researchers found that for all groups of Latinos, the percentage of third-generation children in poverty is much higher than among non-Latino whites.

The socioeconomic circumstances for Asian children generally improve with each succeeding generation in the United States.

Asian immigrants are more likely to be skilled professionals entering under employment-based visas, while Latinos are more likely to be unskilled, and sometimes undocumented, as part of manual

ATHLETICS

A regular column provided by Intercollegiate Athletics

Olympian/ Penn Stater dies

Former Olympic gold medalist Henry N. "Barney" Ewell, a track and field legend as a Penn State undergraduate, died in Lancaster on April 4 at the age of 78. Mr. Ewell won a gold and two silver medals as a sprinter for the United States in the 1948 Olympics in London. As a Penn State student-athlete, he captured back-to-back 100- and 220-yard NCAA sprint titles in 1940-41. He was a nine-time college All-America and accumulated a dozen I-C-4-A titles during his undergraduate career. Inducted into the National Track & Field Hall of Fame in 1986, *Track & Field News* still ranks him among the Top 10 sprinters of all-time.

Academics and athletics

Four-time NCAA fencing champion Olga Kalinovskaya and two-time football All-America Jeff Hartings have been named 1996 recipients of the Ernest B. McCoy Awards. The prizes annually recognize the senior man and woman "who combine successful athletic participation with academic excellence."

Both Kalinovskaya and Hartings are two-time CTE-CoSIDA Academic All-Americans. Kalinovskaya, the first woman to win four NCAA fencing crowns, has a 3.90 grade point average in electrical engineering. Hartings carries a 3.28 GPA in marketing.

Golfers tournament

The Penn State men's golf team will be host for the Big Ten championship at the Blue Course May 10-12.



Going up

U.S. Marine Corps Capt. J.T. Jenkins of South Carolina, left, prepares to take freshman Tamalia Wentz for a helicopter ride. The Marines were offering the air tours Friday, April 19, from a field near Beaver Stadium on the University Park Campus.

Photo: Greg Grieco

Private Giving

Planned tennis center receives \$250,000

Mildred Oler of Bryn Mawr and Charles and Ruth Shaeffer of Lutherville, Md., have each given \$125,000 to Penn State to help build the Sarni Tennis Facility in the area formerly occupied by poultry barns next to Holuba Hall on the University Park Campus.

Ms. Oler's gift will create a memorial to her brother, Glenn Thomson, a 1931 graduate who died in 1994. Both gifts will help fund the building of a clubhouse, to be constructed from a historic barn on the site. Thomson and Shaeffer were tennis partners on Penn

State's 1931 team, and the clubhouse named in their honor will recognize their partnership and 60-year friendship.

A loyal supporter of several Penn State programs, Thomson was especially committed to the tennis program. With Shaeffer, he helped establish a varsity tennis endowment, which provides funds for varsity tennis scholarships and for other Penn State tennis activities. The market value of that endowment is more than \$500,000.

A 1933 liberal arts graduate, Shaeffer

is a retired chairman and consultant of T. Rowe Price Associates. A former member of Penn State's Board of Trustees, he has established two scholarship funds in The Smeal College of Business Administration and has supported such projects as the Indoor Sports Complex and The Bryce Jordan Center.

In 1973, Shaeffer was named a Penn State Alumni Fellow and a Distinguished Alumnus.

The University has scheduled construction for the \$1.5 million tennis center to begin in late 1996.

Water tunnel open for tours during special ceremony

Penn State's Garfield Thomas Water Tunnel on the University Park Campus will be recognized as a national historic mechanical engineering landmark by the American Society of Mechanical Engineers (ASME) at special ceremonies, at 3 p.m. Monday, May 6.

The tunnel facility, a familiar landmark on North Atherton Street, will be open for tours by Penn State employees and students before the ceremony from 1-3 p.m.

PENNSTATE INTERCOM

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INTERCOM

May 7, 1996—Early edition

Volume 25, Number 32

Clinton to speak at Jordan Center

President will address Graduate School May 10

Like the class of 1955, graduate students in the class of 1996 should have little problem recalling their commencement speaker—the president of the United States.

In 1955, President **Dwight D. Eisenhower** took the stage at Beaver Field to address the 1,847 graduates University-wide and their families (see story on page 5). This Friday, President **Bill Clinton** will address approximately 1,000 students and their families and friends on the University Park Campus.

On April 24, President Clinton accepted an invitation from University President **Graham B. Spanier** to speak at the Graduate School commencement ceremony to be held at 2 p.m. Friday, May 10, in the Bryce Jordan Center.

"I'm very pleased that President Clinton has accepted Penn State's invitation to join us for the graduate commencement ceremony," Spanier said. "This will be a wonderful day for Penn State and a great opportunity for our students."

Approximately 770 students are expected to receive master's degrees and 188 are expected to receive doctorates at the ceremony. Throughout the Penn State system, about 5,400 students will receive degrees in various ceremonies on the weekend of May 10-12.

Graduate students can invite six guests to hear President Clinton speak. Tickets are being distributed from 7 a.m. to 7 p.m. in the lobby of the Kern Graduate Building through Thursday, May 9. Each student must present a current student ID to receive the tickets. Students not able



Early bird

Stephanie Taylor-Davis, a soon-to-be nutrition graduate, was one of the first to pick up tickets for the 2 p.m. Friday, May 10 Graduate School commencement ceremony that will feature President Bill Clinton as keynote speaker.

Photo: Greg Greco

More inside

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to pick up their tickets at Kern must call ahead to the Graduate School at (814) 865-5448, (814) 865-2516 or (814) 865-1834 to ask that the tickets be held at the Jordan Center.

At press time, it was not known how many seats would be available at the Jordan Center, but a very limited mix of remaining tickets for fac-

ulty, staff, other graduating students and the general public will be distributed this week. (See "Ticket Information" on page 4.) Assigned seating is being used for the event. Doors to the Jordan Center will open at 11 a.m. and those attending MUST be in their seats by 1:15 p.m. Graduating students and their faculty escorts should arrive at the center before noon and will enter through the south entrance (facing College Avenue). Anyone arriving late will not be permitted to enter the building.

Penn State is one of three schools at which President Clinton will deliver commencement addresses this month. In addition to his May 10 visit here, Clinton is slated to

See "Clinton" on page 4

Water tunnel earns national landmark status

By **BARBARA HALE**
Public Information

Penn State's Garfield Thomas Water Tunnel on the University Park Campus began operating in 1950 and was, for 40 years, the largest high-speed water tunnel in the world. While the water tunnel no longer holds that record, it gained new distinction Monday, May 6, when it was recognized as a national historic mechanical engineering landmark by the American Society of Mechanical Engineers (ASME).

A commemorative plaque from ASME marking the designation will be displayed prominently in the entrance to the tunnel facility, the familiar landmark with tall windows on North Atherton Street. According to ASME, sites are selected as landmarks because they represent a progressive step in the evolution of mechanical engineering or a development of clear historical importance to mechanical engineers.

The water tunnel, which can be seen through the building's windows, is a massive structure of pipes of different diameters that form a continuous closed-loop circuit. The 100 feet of pipes that form the tunnel are arranged in a rectangle configuration about 32-feet high. Flowing within the pipes are approximately 100,000 gallons of water driven by a 2,000-horsepower motor which can generate

See "Water tunnel" on page 3

Inside



Big Man on Campus

Clinton is not the first U.S. president to visit Penn State. For a list, see page 5.

At left, Lyndon B. Johnson, then vice president, is shown pressing the flesh outside of Schwab Auditorium in 1962.



Walking in prehistoric shoes

Anthropology students try to recreate wear patterns caused by trampling during a different era. For the full story, see page 14.

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DIVERSITY

■ Diversity note

Holy observances for major world religions

The following listing, compiled in consultation with campus and community religious leaders, specifies holy days of the major world religions for which observance may require a student to depart from the normal routine at the University. Only those holy days which occur when classes are in session are listed.

September

- 14-15 Rosh Hashanah (Jewish)
- 23 Yom Kippur (Jewish)
- 28-29 Sukkot (Jewish)

October

- 5-6 Shemini Atzeret begins at sundown Oct. 4 and Simchat Torah ends at sundown Oct. 6 (Jewish)
- 21 (approx.) Dashehra (Hindu)

November

- 1 All Saints Day (Roman Catholic, Protestant)
- 10 (approx.) Diwali (Festival of Lights) (Hindu, Sikh)
- 12 Baha'u'llah Birthday (Baha'i)
- 25 Guru Nanak Birthday (Sikh)

December

- 6 Hanukkah begins at sundown
- Dec. 5 and ends at sundown Dec. 13 (Jewish)
- 8 Feast of the Immaculate Conception (Roman Catholic)

January 1997

- 10 (approx.) Ramadan (30 days); (Islam)

February 1997

- 9 Idul-Fitr (Islam)
- 12 Ash Wednesday (R. Catholic, Protestant)

March 1997

- 10 Eastern Orthodox Lent (Christian)
- 23 Purim (Jewish)
- 28 Good Friday (R. Catholic, Protestant)
- 30 Easter (R. Catholic, Mormon, Protestant)

April 1997

- 18 (approx.) Idul-Adha (Islam)
- 21 Festival of Ridvan (Baha'i)
- 22-29 Passover begins at sundown April 21 and ends at sundown April 29 (the first two days and the last two days are holiday observances - sundown April 21 through sundown April 23 and sundown April 27 through sundown April 29) (Jewish)
- 25 Holy Friday (Orthodox Christian)
- 27 Easter (Orthodox Christian)

May 1997

- 6 Ascension Day (Roman Catholic, Protestant)
- 9 (approx.) Muharram (Islamic New Year)
- 9 (approx.) Ratha-Yatra (Hindu New Year)



Take Our Daughters to Work Day

Brian Dempsey, associate professor of civil engineering, brought his daughter, Allison, to work with him April 25 as part of the nationwide program to introduce girls to different career paths. The program was sponsored at Penn State by the Commission for Women. The Dempseys are in the electron microscope facility.

Photo: Greg Gnecco

Diversity Briefs

Fayette holds annual Women's Day

The 15th Annual Women's Day on Campus will be held May 16 at the Penn State Fayette Campus. The one-day event is designed to provide a forum for issues and concerns to women and offers an opportunity for women of all ages and backgrounds to learn, share and contribute.

During the past 14 years, more than 2,600 women have attended the program. This year's program will offer an assortment of workshop topics and a Community Service and Information Fair. **Helen Villa Connor**, award-winning designer and co-author of *The Triumph of Individual Style...Creating Beauty and Style with Substance*, will be the featured speaker.

Women's Day will begin at 7:45 a.m. with registration. Participants may then visit the Community Service and Information Fair to be held in the newly remodeled student lounge in the Williams Building. The program will conclude at 3 p.m.

The deadline for reservations is May 10. The registration fee of \$12 covers the cost for attending all events. Reservations will be taken on a first-come, first-served basis. For more information about the program agenda, call **Harriet Galida** at (412) 430-4140 or **Barbara Sleskey** at (412) 430-4153.

Visiting minority scholar at Allentown

Angeles Molina Iturrando, professor of education, University of Puerto Rico, Rio Piedras Campus, will be a visiting minority scholar at the Penn State Allentown Campus from May 16-May 23. The Allentown Campus will provide educational programs, through funding from the Keystone University Research Corp. and the University's Visiting Minority Scholar Program, as well as facilitate and consult with local providers of early childhood development/education programs on a variety of issues. This work will

include consultation on curriculum development, training and development specifically related to language acquisition and multicultural issues.

Iturrando will also conduct a workshop with faculty from Community Services for Children (Head Start), Lehigh Carbon Community College, Northampton Community College, Penn State's College of Agricultural Sciences and Cooperative Extension of Lehigh and Northampton counties.

Water tunnel

continued from page 1

water velocities up to 60 feet per second. One 14-foot stretch of the loop, which has a diameter of 48 inches, is equipped with plexiglass panels and hatches through which researchers can place and then observe objects in the path of the high-speed flow.

Michael Billet, tunnel director, says the Applied Research Laboratory, a Navy-oriented facility, uses the tunnel to conduct research and to test advanced undersea technology as well as concepts for industrial application. In addition to research, the water tunnel is used for both graduate and undergraduate instruction.

The Navy originally built the Garfield Thomas Water Tunnel between 1948 and 1949 to test propellers and torpedo shapes at the former Ordnance Research Laboratory, which was renamed the ARL in 1973. However, right from the start, Penn State faculty members and graduate students have also used the facility for instructional purposes.

Donald Ross, who was a graduate student while he served as one of the tunnel's original designers, wrote the first doctoral dissertation based on it.

Today, in addition to Navy projects, tunnel-based research has been applied to artificial heart valves, vacuum cleaner fans, car heating and cooling systems, advanced propulsors for commercial ships, pumps for the Space Shuttle and other products.

Graduate students still conduct these there and undergraduates can participate in research at the tunnel through the Computer Science and Engineering Honors Program, the Mathematics Honors Program, the Engineering Cooperative Program or as part-time employees.

The Garfield Thomas Water Tunnel is the 116th National Historic Mechanical Engineering Land-



Dedication

Instead of water, students flooded the building housing the Garfield Thomas Water Tunnel on Oct. 7, 1949, when the tunnel was dedicated. Photo: Courtesy of the Applied Research Laboratory

mark to be designated by ASME.

Other ASME landmarks include the cable cars of San Francisco, the Apollo Command Module and the Johnstown incline. The Penn State Heart-Assist Pump was named an ASME International Historic Mechanical Engineering Landmark in 1990.



Who was Garfield Thomas?

By KAREN TRIMBATH
Applied Research Laboratory

In 1949, the Board of Trustees voted to name the newly constructed water tunnel after the late Lt. W. Garfield Thomas Jr.

Born in 1916, the lieutenant was the son of W. Garfield Thomas Sr., then the Pennsylvania deputy secretary of mines, and Emeline Thomas.

After growing up in Colver, Pa., the young Thomas studied journalism at Penn State. His achievements at the University included serving as the manager of the soccer team as well as becoming the class historian and secretary.

After graduating in 1938, he began working for the Ebensburg Coal Co. and then the Atlantic Refining Co.

When the threat of war appeared on the horizon, Thomas felt compelled to serve his nation. During the summer of 1940, after joining the Naval Reserve, he sailed to Cuba on the USS Wyoming. Later that fall, he completed an intensive three-month officers' training course and was among the first class of volunteer ensigns graduated outside of Annapolis in peacetime.

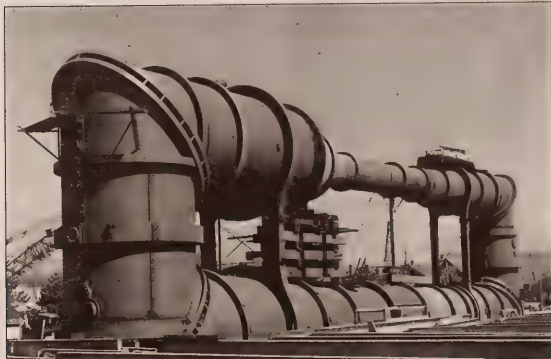
By the end of the year, Lt. Thomas reported for duty on the USS Boise, a 10,000-ton light cruiser, and in early 1941, he traveled to Pearl Harbor. For more than a year, Lt. Thomas and his shipmates on the Boise sailed the Pacific. They encountered battle on Oct. 11, 1942, when they entered Cape Esperance on the northwest tip of Guadalcanal. In this grim struggle, which continued the next day, the Boise sank six Japanese ships, but was herself hit by enemy fire.

Thomas, the officer in charge of the No. 1 turret, was critically wounded when an eight-inch shell abruptly pierced this armored steel structure. Despite his injuries, the 27-year-old man bravely stayed behind in his blazing station and ordered his men to abandon ship. He died aboard the embattled Boise and was later buried at sea.

For his courageousness, Lt. Thomas was posthumously awarded the Navy Cross and the Purple Heart. A year after his death, the Navy named a destroyer escort in his honor.



W. Garfield Thomas Jr.



Dual purpose

Although the Navy built the Garfield Thomas Water Tunnel between 1948 and 1949 to test propellers and torpedo shapes, the facility was always open to Penn State faculty members and graduate students for instructional purposes.

Photo: Courtesy of the Applied Research Laboratory

Presidential Visit

Dos and don'ts for attending the ceremonies

Tremendous response to this event will mean long lines and crowds. Penn State is working to provide a safe, dignified ceremony. Here are some dos and don'ts for those planning to attend President Clinton's address at the Graduate School commencement May 10. Doors will open at 11 a.m. Many details are still being worked out, but in almost any situation it will still be important to follow these guidelines:

■ **Don't show up without tickets.** Sounds simple, but you won't be admitted if you don't have a ticket, and it's extremely unlikely any will be available at the Jordan Center the day of the event. So far, procedures for getting tickets are in place only for graduating graduate students, who can pick up tickets for themselves and up to six family members or friends in Kern Lobby. Keep checking your local newspapers or radio stations for ticket information. Information is also available at <http://www.ursi.psu.edu> on the University Relations home page.

■ **Show up early.** Plan to arrive at the Jordan Center at least two hours before commencement begins, which is now tentatively scheduled for 2 p.m. You need to allow extra time to find a parking place and go through security checks. Parking in the immediate area may be restricted, and every one attending will be required to go through a metal detector. Doors to the Jordan Center will be open at 11 a.m. and everyone must be seated by 1:15 p.m., 45 minutes before the ceremony begins.

■ **Be flexible and courteous.** Many people will be converging on the State College area for this event — some of whom are unfamiliar with the Jordan Center and the entire area. Expect heavy traffic. Also, many details are still being worked out. Be understanding if some arrangements are changed at the last minute.

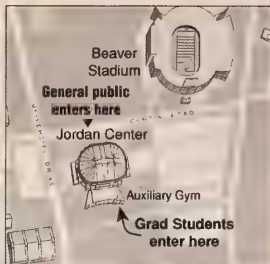
■ **Don't bring briefcases, bags and backpacks.** Briefcases, backpacks and any other kind of bag — including camera bags and cases for video cameras — they may have to be individually checked by security or left in a secure area. Don't slow yourself down as you move through the security check.

■ **Cameras and video recorders are welcome, but they will be inspected.** Again, camera bags and video camera cases should be left at home.

■ **Large purses and full pockets can slow down your entrance.** Travel light!

■ **Do not bring coolers, umbrellas, banners, posters or signs, food or beverages.** Concessions will be available in the center.

■ **Show up early.** This is so important, it's worth mentioning again. Even if you have a ticket, you may not be seated if you show up late. Typically, at presidential visits, all attendees must be present and in their seats before the president enters the hall. If you show up after the president is in the room, there is little chance you will be admitted.



Where do I go?

Graduating students and their faculty escorts should arrive at The Bryce Jordan Center at noon and enter through the door marked above. Others attending the ceremony MUST be in their seats by 1:15 p.m. and should enter through the doors on Curtin Road.

Clinton

continued from page 1

speak at the Coast Guard Academy on May 22 and Princeton University, May 24. A White House spokesman said President Clinton's speeches to graduates will reinforce some issues he wants to present to the nation about his ideas for the future of this country.

Clinton has ties to Penn State through his wife, Hillary.

His late father-in-law, Hugh E. Rodham, attended Penn State and received his bachelor of science degree in education in 1935. Rodham was on the football team and a member of Delta Upsilon fraternity when he attended Penn State.

The University established the Hugh E. Rodham Memorial Scholarship Fund in 1993 to support worthy undergraduates in the College of Education. To date 10 awards have been made from that scholarship fund.

The president's brother-in-law, Hugh E. Rodham, also graduated from Penn State. He received a degree in health and physical education in 1972.

TICKET INFORMATION

Very limited numbers of tickets are available. Graduate School faculty who are NOT accompanying a doctoral student were able to pick up a ticket Monday. For others listed below, tickets can be picked up at the Jordan Center between 8 a.m. and 5 p.m. (or until that day's allotment is exhausted). Faculty, students and staff will be asked to present a current ID to receive a ticket. The schedule for tickets follows:

Tuesday: Seniors graduating in ceremonies on Saturday and Sunday — one ticket each.

Wednesday: Other faculty, staff and students of the University — one ticket each.

Thursday: Members of the general public — a small number of tickets may be available, if so, two per person. Check local media for more information closer to date of event.

Students in the University Scholars program are being invited and will have their tickets distributed to them.

Seating is reserved and tickets are being distributed on a first-come, first-served basis.

For those who can't attend

Although public seating for the ceremony and speech will be limited, thousands can watch it or hear it live.

■ **WPSU radio, WPSX-TV, WTAJ-TV 10 and the Pennsylvania Cable Network** will also cover it live throughout central Pennsylvania. C-Net in State College will broadcast it several times in the days following the event. The University Park Campus Cable TV, Channel 6 also will broadcast it live.

■ **The audio portion of President Clinton's address at the Graduate School Commencement** will be broadcast over the Internet live on Friday, May 10.

The speech will be in RealAudio format for people with modem connections of 14.4 Kbs or faster, or through direct backbone connections for people in their offices who cannot attend the event and are unable to listen on radio or television.

A total of 2,000 simultaneous connections will be available the day of the speech. A recording of the president's speech will be archived and available after May 10 for those who are unable to log in.

Users will need to obtain a copy of the free RealAudio player software from the company's Web site before May 10. The site's URL is: <http://www.realaudio.com/>

Many details of this service are still being worked out. Please check the University Relations Web site (URL: <http://www.ursi.psu.edu/>) for daily updates, and for instructions on how to make the connection to the live broadcast.

■ **In addition, Penn State Media Sales is offering a commemorative videotape of the commencement ceremony** for \$29.95, which includes shipping and handling. Call 1-800-770-2111 to order a copy.



University Scholars Medal

President Bill Clinton, a Rhodes Scholar at Oxford University from 1968 to 1970, will receive a University Scholars Medal, shown above, at the Graduate School ceremony on May 10 in recognition of his achievements. Clinton holds a bachelor's degree from Georgetown University and a law degree from Yale Law School.

To get more information

For more up-to-the-minute information on tickets, parking and anything else related to the ceremony, log-in to the home page of the Office of University Relations at URL: <http://www.ursi.psu.edu/>

Presidential Visit

Centennial Commencement was one for the books

By LISA M. ROSELLINI
Public Information

For hours on end, through the night, rain poured down in a steady stream on the stands and soaked the grass field until it squished beneath their feet. Small, shallow pools of mud began to form and as workers looked toward the dark sky, it seemed hopeless.

As Charles Hosler, then-assistant professor of meteorology, remembers it, the miserable weather was enough to bring tears of panic to some administrators' eyes. On the eve of the outdoor commencement ceremonies for Penn State's class of 1955—its centennial year—Mother Nature was playing a calamitous and cruel joke.

The ceremony, scheduled for 10:30 a.m. Saturday, June 11, at the new Beaver Field (now the site of the Nittany Lion Inn), was expected to not only accommodate nearly 35,000 visitors but also the 34th president of the United States — Dwight D. Eisenhower.

Eisenhower, brother of Penn State's 11th president Milton S. Eisenhower (1950 to 1956), had accepted an invitation to give the commencement address to the 1,847 graduates of the class of 1955. The visit was a boost to Penn State's new-found status, for just two years earlier it was a small

college designed to reflect its growing presence in the state and nation—the

University had changed its

name from The Pennsylvania State College

to The Pennsylvania State University. With

the 11th largest full-time enrollment

in the country and a research program of \$6

million, Eisenhower's visit seemed to offer

proof of Penn State's reputation as an educational powerhouse.

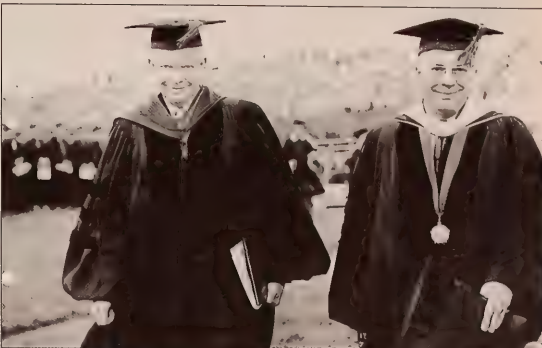
As with the most recent announcement of the

May 10 commencement address to be given by President Bill Clinton, excitement among students and faculty in 1955 over the pending event ran high. But in 1955, patriotism was at its peak. Eisenhower — a war hero and much-respected national figure — was a symbol of American leadership and strength.

"He was an icon of sorts and people were still feeling the elation and patriotism of the victories of the second world war. There was tremendous anticipation that this would be a wonderful new era," Paul H. Cutler, Penn State professor of physics and a 1955 graduate, said. "People were absolutely thrilled that the president of the United States was coming and in particular, a person of Dwight Eisenhower's stature."

But as an unrelenting flow of water continued to fall from the sky into the early morning hours on that gray spring day, University officials nervously wondered how they would turn away 30,000 people and shuffle 5,000 graduates and their closest relatives into Recreation Building.

"I was up all night with others drawing hourly weather maps," Hosler, now dean emeritus and



Centennial commencement

President Dwight D. Eisenhower (left) walks across Beaver Field with his brother, Milton, on June 11, 1955, just before giving the commencement address. "ike" visited University Park four times during Milton Eisenhower's tenure as president.

Photo: Courtesy of the University Archives

senior vice president

emeritus, said, "It

had poured like the

devil and I'd say it

dumped about two

inches of rain on the

area. We had some

pretty primitive

methods back then

for forecasting ...

there was no radar

and no satellites, so it

was a little bit skill

and a little bit luck."

Hosler recalls

being summoned at 7

a.m. from his lab to

provide Dwight

Eisenhower with an

update on the weather situation. Trudging through

the early morning drizzle to Milton Eisenhower's

residence on campus (now University House),

Hosler held his weather maps tight under his slack-

Visits by U.S. presidents

■ **June 11, 1955**—Dwight D. Eisenhower

■ **April 1962**—Soon-to-be President Lyndon B. Johnson spoke as part of College of business Administration's Career Day activities

■ **1969**—Richard Nixon attended funeral services for Ernest L. Nixon in State College.

■ **1978**—Former President Gerald Ford spoke at the HUB

■ **Sept. 23, 1992**—President George Bush was on the campaign trail.



Stumping

President George Bush, campaigning for a second term in office, addressed a crowd of 20,000 on Old Main lawn on Sept. 23, 1992.

Photo: Greg Grieco

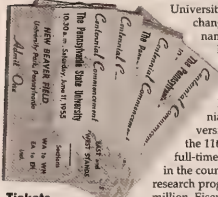
worrying about whether we would lose our deferment, we were all classified as students and not eligible."

Campbell's fears were real. He lost his deferment and just three months after graduating, was drafted into the Army.

Like Campbell (and thousands of other graduates across the country), Irene (Lipschitz) Cutler, a 1955 Penn State graduate in the College of Education and wife of Paul, doesn't recall her commencement speaker's words, but she does remember the general air of excitement.

"My whole family came from New Jersey because it was such a significant event," she said. "Eisenhower's military record was extremely important to a lot of people at that time. The country as a whole was caught up in a lot of things."

May 10 will mark only the second time a U.S. president has given the commencement address at Penn State.



Tickets

Four tickets to the 1955 Centennial Commencement.

LECTURES

Engineering professors plan international conference

Penn State Harrisburg engineering professors will be sharing their expertise with French educators during an environmental video conference May 23 and 24.

The two-day "Green Design" conference will link educators from IUT, a technical university in Belfort, France, with those from Harrisburg and University Park. Topics will include recycling, sustainable development and the use of technology to make the automobile industry more environmentally conscious.

Charles Cole, chair of the envi-

ronmental programs at Penn State Harrisburg and associate director of the School of Science, Engineering and Technology, will discuss recycling, resource recovery and reuse.

Ganesh Bal, Harrisburg assistant professor of engineering, will focus on computer integrated manufacturing, while Andrew Lau, associate professor of engineering, will discuss a course he is teaching that examines technology's impact on culture; and Seth Wolpert, assistant professor of engineering, will address computer applications in automobile manufacturing.

Pa. economic development policy topic of conference

Economic development policy in Pennsylvania will be explored at a conference co-sponsored by Penn State and the Pennsylvania House of Representatives Legislative Office for Research Liaison (LORL) Thursday, May 16, at the Capitol Building in Harrisburg.

The conference will highlight new opportunities for economic development in Pennsylvania in light of experiences in other states and the changing role of the federal government. It is one of a series of conferences on Pennsylvania Public Policy Issues being hosted by LORL and the Commonwealth's universities to brief legislators and executive branch officials on programs that can enhance economic competitiveness.

Penn State's Institute for Policy Research and Evaluation and the Graduate School are coordinating the Penn State effort. Irwin Feller,

professor of economics and director of the institute, is leading the coordination team. David Shirley, senior vice president for research and graduate education, will serve as moderator for the program. The Pennsylvania Cable Network (PCN) will delay broadcast the proceedings.

Some of the speakers and their topics include: Jesse L. White Jr., federal co-chairman, Appalachian Regional Commission, "State Economic Development Roles in a Period of Changing Federalism;" Irwin Feller, "What Pennsylvania Firms Want from State Government/What Works Elsewhere;" Constantine Papadakis, president, Drexel University, "Higher Education Innovations in Ohio;" and Amy K. Glasmeier, Professor of Regional Planning and Geography, Penn State, "Overview of Regional Development Strategies."

Seminar covers several topics related to menopause

"Menopause: Everything You Want to Know," a one-day seminar at the Penn State Scanton, will feature Dr. Phyllis Kermoff Mansfield as keynote speaker to discuss "Perspectives on Menopause on Saturday, May 18.

In this seminar, sponsored by Continuing and Distance Education, a variety of topics related to menopause will be covered from 9 a.m. to 4 p.m. They include:

- "Understanding Menopause," by Dr. Jan Ulbrecht;

- "Hormone Replacement Therapy," by Dr. Michele Manting-Brewer;
- "Psychosocial Changes During Menopause," by Judy Zarit;

- "Nutrition for a Healthy Transition," by Penny Kris-Etherton;

- "Exercise for Health and Fitness," by Bill Evans; and

- "Physiological Changes," by Christine L. Peikman.

The registration fee for this event is \$75-\$80 for students. For more information, call (800) PSU-TODAY.

Free distance education program is rescheduled

"Innovations in Distance Education: Experiences in Design and Development," a free program for Penn State faculty originally scheduled for May 10 at The Penn State Scanton, has been moved to May 9, to accommodate graduate commencement and President Clinton's visit. The program will begin at 8 a.m. and conclude at 1 p.m. following a box lunch meeting. Attendees are encouraged to preregister for the afternoon program, "Exploring the Potential of Distance Education," which begins at 1 p.m.

The workshop will feature individual faculty presentations of experiences and insights gained during

the first year of the Innovations in Distance Education (IDE) project, which is funded in part by a grant from the AT&T Foundation.

Final registration for this program will be held from 7:30-8 a.m.; final registration for the afternoon program, "Exploring the Potential of Distance Education," will be held from 11 a.m.-1 p.m.

There is no fee for either of these programs, but space is limited and preregistration is required. To register for either or both of these free programs for faculty, call (800) PSU-TODAY (800-778-8632). Visit <http://www.cde.psu.edu/DEInnovations/> for complete program information.

Workshop to help teachers enhance performance skills

New lecturers, instructors, teaching assistants and graduate students in education who are interested in enhancing their classroom performance skills may want to attend "Teaching Tools for Excellence: Using Performance Skills in the Classroom," a one-day workshop on Friday, Aug. 2, at The Penn State Scanton at University Park.

This workshop focuses on an aspect of teaching most teachers don't think about: their performance in the classroom and their ability to project enthusiasm. Pedagogical studies show a direct causal relationship between a teacher's mastery of and enthusiasm for the subject being taught and the students' attentiveness and attitude toward learning.

Robert T. Tauber, professor of education at Penn State Erie, The Behrend College, and Cathy Sargent Mester, senior lecturer in speech communication at Penn State-Behrend, will present the seminar.

Tauber has more than 30 years of experience teaching at the elementary,

secondary and university levels. He is the author of five books and more than 50 articles published in national and international journals. Most recently, he served a six-month sabbatical at the University of Melbourne, studying classroom management practices in Australia. Before that, he served a yearlong sabbatical at Durham University investigating how British educators wield power and influence in the classroom.

Mester has been a faculty member since 1971. She has co-authored three books, published several scholarly articles and presented more than 30 papers at professional conferences.

During the workshop, Tauber and Mester will present research findings on the relationship between teacher behavior and learning outcomes, define and demonstrate performing skills for the teacher's repertoire and provide guided practice sessions of these skills.

For more information and registration, call (800) PSU-TODAY (778-8639).

Erie to hold video talk on information technology

Penn State Erie, The Behrend College, will host a live interactive video teleconference, "Engineering Information Technologies: Maximizing Your Design Systems for QS-9000," from 8:45 a.m. to 1 p.m. Wednesday, May 8. The three-hour satellite broadcast will be followed by a luncheon presentation and hands-on demonstration.

The program will highlight engineering information technologies such as computer-aided design and computer-aided engineering, which provide small and midsized manu-

facturers with the opportunity to participate jointly with large corporations in early product concept and development. In addition to examining topics such as geometric modeling, finite element analysis and simulation techniques, attendees will also learn how to meet compliance in design control. Attendees are also encouraged to call or fax in questions during the question-and-answer sessions. Cost is \$60. For more information or to register for the program, call PENNTAP at (814) 898-6145.

Spanier achieves his goals on statewide tour

By VICKI FONG
Public Information

A resounding message from Pennsylvania communities during the past year has been the importance of Penn State to the future of each of these locales and their people.

From the employees of Mack Trucks World Headquarters in Allentown to the Harley Davidson Inc. plant in York, from the youths of DuBois High School to Schenley High School in Pittsburgh, President **Graham B. Spanier** listened to the concerns of thousands of state residents during the eight-month statewide tour which concluded April 24.

"The statewide tour has been a wonderful opportunity to reach out to the people of Pennsylvania," Spanier said. "I have met with more than 10,000 people in 200 groups across 25 different communities and regions. I have found an incredible level of support for Penn State, great interest in our programs, and nothing but loyalty and enthusiasm for our missions of teaching, research and outreach."

"The warmth of the hospitality on our campuses and in our communities has been overwhelming," he added.

Starting Sept. 20 at Fayette Campus in Uniontown and ending on April 24 at Pennsylvania College of Technology in Williamsport, the tour was part of the president's statewide initiative to rededicate the University to the people it serves and to increase their understanding of Penn State and higher education in general. Stops included high schools, business groups or chambers of commerce, local media, receptions with local alumni and supporters, and area Penn State Cooperative Extension offices.

"It is difficult to overstate the impact the president has had on all he has seen on these visits," **Robert Dunham**, senior vice president and dean of the Commonwealth Educational System, noted. "Many people said he was the first president of any college or university to visit them and get to know them."

"Also, by getting to know the campuses of Penn State, he has now given CES greater prominence and more visibility and the campus faculty and staff have really seen him as a champion."

For many students at Lake Lehman High School in northeastern Pennsylvania, "he was the first college president they've rubbed shoulders with and they were impressed with his humility," said school Superintendent **William Price**.

"His message was sincere; he let them know he cared and there is no substitute for that. He's a good listener. Also, the faculty liked his plans for taking Penn State into the 21st century," Price said.

At the Crispus Attucks Center in York, which provides a variety of programs such as day care, job training family services, Spanier met with the staff and the youths involved in the programs.

"He is an easy man to talk to, not an



Lesson in plastics

Nancy Statham of the College of Science at Penn College gives Graham Spanier an overview of the plastics manufacturing process.

Photo: Greg Grieco



First stop

Keith Reynier, right, shows Graham Spanier a plane at the Kathryn W. Lumley Aviation Center.

Photo: Greg Grieco

intimidating person," **Robert Simpson**, director of the center, said. "I told him that my concern is that Penn State needs to look at its cultural diversity programs and recruitment programs for minorities. The university does not reflect the diversity that needs to be. He said he is committed to those issues and I believe he is."

Another important message revealed during the visits was the vital role that Penn State plays in the lives of many towns and businesses.

Dick Miller, chairman of the Susquehanna Alliance, which comprises business, government, and economic development leaders from the Greater Harrisburg area, said Penn State Harrisburg area, said Penn State Harrisburg area was working with the alliance to make some things happen in the Middletown area.

"But we would like to see Penn State, as an institution, play a major role in the development of the entire complex — including the Capital College and Harrisburg International Airport — into a transportation center and research park, like the Research Triangle Park in North Carolina," Miller said.

Near Philadelphia, Chester County is seeing an increase in the number of information-based and technology-based corporations located there. **Robert Powelson**, president of the

For a virtual tour of President Spanier's visit to Penn College in Williamsport, log in at [URL: http://www.pct.edu](http://www.pct.edu) and get "Twelve Hours on the Road." The World Wide Web site, designed by **Bryan P. Pauling**, a computer information systems/microcomputer specialist student at Penn College, tracked Spanier as he toured the campus April 24 with up-to-the-minute photographs taken with a digital camera. The photos were immediately downloaded to the page and have been available for viewing since.

Chester County Chamber of Business and Industry, said his group was glad to hear about the "ongoing commitment to Penn State Great Valley, which is an important resource."

"We hope to see an expansion of the University's presence as a whole in Chester County," he said.

Dunham said it was critical to reinforce the idea that Penn State will continue to serve the education and economic needs of the people and the businesses of the state.

"Perhaps the one thing that surprised me was the intensity of belief in the importance of Penn State to the communities in which we operate," Spanier said. "Community leaders, elected officials and chambers of commerce made it very clear to me that Penn State is critically important to the future of our cities, towns and rural areas."

"Our provision of educational services and promotion of economic development are the key elements to the future of the communities that surround our Commonwealth Campuses," he added.

After completing such an intense schedule, one would expect the president to take a well-deserved rest, but in just a few weeks, he's heading back out to visit more Pennsylvania towns — and

Center to move onto campus

During his tour of the Pennsylvania College of Technology in Williamsport on April 24, President **Graham B. Spanier** announced the relocation of Penn State's Williamsport Center for Continuing and Distance Education from downtown Williamsport to the campus of Penn College. The relocation is part of a new relationship designed to optimize the strengths of Penn College and the Williamsport Center.

Eliminating public confusion and duplication of programs and services is a guiding principle of the agreement. While Penn College and the Williamsport Center will both continue to offer credit and non-credit continuing education programs, each will offer a different menu.

Under the agreement, revenue for Williamsport Center programs will be retained by the center and revenue for Penn College programs will be retained by Penn College; revenue will be shared for joint programming. In addition, Penn College will provide administrative office space, classrooms and support services to the Williamsport Center. In turn, the Williamsport Center will provide Penn College with greater access to University expertise and will enhance Penn College's capability in providing academic programs regionally, nationally and internationally.

Working to ensure complementary programming and outreach opportunities will be **William H. Beisel**, director of Penn State's Williamsport Center, and **Larry L. Michael**, associate dean of Penn College's Technology Transfer Center. The Williamsport Center staff will continue to work as Penn State employees. When appropriate, resources and faculty from both institutions will be used to support each others' programs. The Williamsport Center will operate on the same academic calendar as Penn College, including summers, holidays and in weather emergencies.

New headquarters will be in the Penn College Advanced Technology and Health Sciences Center. The move takes place June 30.

taking two buses full of new faculty with him. (See story on page 17.)

Lake Lehman School District superintendent Price said the president was welcome anytime.

"All institutions of higher education should take Dr. Spanier's lead in reaching out to schools and making their facilities and resources known," Price said. "We certainly will roll out the red carpet for him again if he comes back."

The ARTS

AT PENN STATE



On display

The exhibition "Betye Saar: Tangled Roots" continues at the Palmer Museum of Art on the University Park Campus through July 21.

Odyssey Through Literature

On the May 12 episode of *Odyssey Through Literature*, Roberta Salper of Penn State Erie, The Behrend College, discusses gender and satire in the portrayals of women by Spanish writer Ramon del Valle Inclán.

Salper and host S. Leonard Rubinstein also discuss the 19th-century phenomenon of "brain strain" which is dealt with in the work of Valle Inclán. "Brain strain" was the idea that forbade women any intellectual activ-

ity that would jeopardize their delicate fragile minds.

On the May 19 episode, Susan Albertine of Susquehanna University discusses 19th-century business women and their journey to success.

Odyssey Through Literature is produced at WPSU-TV as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM. A complete schedule can be found on their World Wide Web site at <http://imickey.la.psu.edu/compelit/odyssey/odyssey.htm>.

UNIVERSITY PARK CALENDAR

MAY 8 - MAY 23

SPECIAL EVENTS

Thursday, May 9

"Innovations in Distance Education: Experiences in Design and Development" workshop, 8 a.m.-1 p.m. with box lunch, Penn State Scenicton. Also, "Exploring the Potential of Distance Education" at 1 p.m. Both programs are free. Call 1-800-PSU-TODAY to register.

Friday, May 10

Informal talk, 10 a.m., 26 Hesler Bldg. Edward Lorenz on "The Ubiquity of Chaos."

Saturday, May 11

Entomology program, "Catch the Bug," 10 a.m., 101 ASI. Insects Springing Forth. Springtime walk.

Monday, May 13

National Service Week, the University Alumni Association's community service initiative.

Shaver's Creek Environmental Center at noon. Chris Reese on "Management Issues of State Parks, the Application of Environmental Education in the Park System and Overview on State of the Parks: Local, Regional and National. For information call (814) 863-2000.

Friday, May 17

Jordan Center Event: Brooks & Dunn with special guest Tracy Byrd and David Lee Murphy, 7:30 p.m. For tickets call (814) 865-5555.

Tuesday, May 21

Professional Women, 11:50 a.m., 201 Classroom Bldg. Gerry Santoro on "Surfing the World Wide Web."

SEMINARS

Saturday, May 18

Menopause: Everything You Want to Know, 9 a.m.-4 p.m., Penn State Scenicton. To register, call 1-800-PSU-TODAY.

Thursday, May 23

Center for Gravitational Physics and Geom-

etry, 11:30 a.m., 339 Davey Lab. George Ellis on "Cosmological Models From a Covariant Viewpoint."

CONFERENCES

Monday, May 13

PAMFES Conference, Nittany Lion Inn. Through May 15.

Chocolate Manufacture Short Course, Berland Lab. Through May 17.

Tuesday, May 14

Happy Valley Toast Masters, 11:45 a.m., Heritage Room, Redifer Commons.

Saturday, May 18

Society & Resource Management Symposium, HUB. Through May 23.

Tuesday, May 21

"Mammalian Cell Culture Methods," hands-on biotechnology training workshop, 9:30 a.m., Frear Lab. Through May 24. To register call 1-800-PSU-TODAY.

EXHIBITS

Palmer Museum

"Recent Gifts: The Jack Bershad Poster Collection," through June 2.

"Betye Saar: Tangled Roots," through July 21.

■ "Workers: An Archaeology of the Industrial Age: Photographs of Sebastião Salgado," through June 9.

Pattee

East Corridor Gallery:

Large-scale ceramic pieces by Michael Mopps, through May 31.

Lending Services Gallery and West Lobby galleries:

Works by Susan C. Struble, semi-realistic with focus on colors, forms, shapes and lines. Through May 31.

■ Reflects an international perspective

Ceramics in Pattee Library

An exhibition of current work by Michael Mopps will be on display in Pattee Library's East Corridor Gallery through May 31.

This exhibition features large-scale ceramic pieces. Mopps creates ceramics that he glazes and fires himself. He received his bachelor of arts degree in visual arts from Lander University and his master's of education from Penn State in 1994. Currently, Mopps is employed as an art instructor by the Greenville County Museum of Art and the Greenville Technical College in Greenville, S.C.

Entomology exhibit

The Department of Entomology has an exhibition of photographs in Pattee Library's West Lobby Gallery through May 31.

The exhibition includes images from two projects organized by Scott Camazine of the entomology department. The first study is an examination of floral pollens used by honey bees in the early spring. The second project is an ongoing effort to document the diversity and beauty of insects and includes portraits of common species.

Center for the Performing Arts

The Center for the Performing Arts announced its 1996-97 season, featuring 34 events in nine subscription series at the University Park Campus. Subscriptions are on sale now.

The season offers two new series: Body Language, a dance series, and Forever Young, a family fun series. Also new this season is the Big 10 series, which allows patrons to pick any 10 events for a 25 percent savings on regular ticket prices.

A few highlights of the 1996-97 season include:

■ A brand new version of "A Christmas Carol," a first of its kind collaboration between the center and the Department of Theatre Arts, will show for three performances Dec. 6 and 7.

■ "Kiss of the Spiderwoman," winner of seven Tony Awards, including best musical, has become one of the most highly-lauded musicals in recent years. The deeply moving work to be shown Feb. 1 tells the story of two men of violently opposing personalities who share a prison cell.

See "Arts" on page 13

Contributing to a Better Pennsylvania

through Teaching, Research and Public Service

Contributing to Pennsylvania

Penn State's faculty, staff, and students believe that education is the foundation of an enlightened and prosperous society. That belief has guided the University from its founding in 1855 as a publicly supported agricultural college through its development as a multicampus state-related university. In every facet of its historic mission of teaching, research, and public service, Penn State is committed to improving the lives of the citizens of the Commonwealth of Pennsylvania.

More than 76,000 students—84 percent of them Pennsylvania residents—enrolled for undergraduate and graduate instruction at 23 Penn State locations throughout the Commonwealth in 1995-96. Ninety percent of all Pennsylvanians live within 30 miles of one or more of these locations. The University offers a choice of more than 180 baccalaureate degree programs—the largest number of offerings of any of the Commonwealth's institutions of higher education. In fact, for more than 60 years, Penn State has been Pennsylvania's largest single source of baccalaureate degrees. The University also offers graduate studies in about 150 fields. Its continuing and distance education programs reach an additional 170,000



Penn State programs transfer information about state-of-the-art technology and management practices from the classroom and laboratory to Pennsylvania businesses and industries in such diverse fields as metal castings, computer software, and worker retraining. This information better equips employers to create new jobs and remain competitive in the world marketplace.

learners each year. These short courses, seminars, conferences, and other learning experiences supplement and extend traditional classrooms and labs.

Penn State spent more than \$344 million on research last year. The examples on these pages point to only a few of the ways the results of these investigations and other Penn State initiatives have improved the quality of life for Pennsylvanians and have added countless millions of dollars to the state's economy.

The University's service to the Commonwealth rests on a special obligation it assumed in 1863, when the state legislature designated it as Pennsylvania's only land-grant institution. In return for a modest endowment financed by the sale of federal lands, Penn State agreed to offer instruction in the liberal arts, sciences, and such applications-oriented subjects as engineering and mining. It also pledged to make a college education affordable to people of average means—thus broadening the Commonwealth's educational base—and to disseminate the benefits gained through the pursuit of learning to citizens statewide.

PENNSTATE



Business and Industry

TRAINING

Many Pennsylvania companies that mandate continuing education for their employees turn to Penn State. The Small College of Business Administration's Continuing and Distance Education component held more than 2,000 programs to meet companies' needs in 1995-96.

At the Penn State Wilkes-Barre Campus, for instance, public and contracted microcomputer training workshops for people with little or no computer experience have been held through The Small College for the past 12 years. The number of workshop offerings increased by 175 percent during 1995.

Often, business faculty work directly with individual corporate partners. A management development program based at the Penn State Mont Alto Campus delivers training in communication, team building, conflict resolution and other topics to the Schindler Elevator Corp.'s faculty in Gettysburg. Since this partnership

began, the Gettysburg plant was voted the most improved company in the Schindler family for 1995.

Another office, the Penn State Executive Programs, has had nearly 2,500 Pennsylvania upper-middle- and senior-level executives enrolled in its general management, functional management and custom courses in the past decade.

Designed to aid executives worldwide in broadening their perspectives, the programs can help link Pennsylvania businesspersons to the expanding global economy through personal contacts made during the programs with new colleagues from across the planet.

TECHNOLOGY TRANSFER

Penn State also helps many Pennsylvania corporations and industries adapt to changing technology.

At Penn State Erie, The Behrend College, the Plastics Technology Center teamed up with Port Erie Plastics Inc. of Harborcreek to design a reusable plastic version of the traditional wooden pallet or skid that can be recycled into new pallets when worn out.

The Ben Franklin Technology Transfer Center of Central and Northern Pennsylvania, in league with the Commonwealth and the Penn State Research and Technology Transfer Organization, assists manufacturers with research and development with state grants totaling more than \$9 million.

In cooperation with the overall Ben Franklin Partnership Program and the Pennsylvania Foundrymen's Association, Penn State's Metal Casting Center has been tapped by the Environmental Protection Agency to lead an effort to reuse sand and other residuals from foundries in highway construction, cinder and fill.

AGRICULTURE

Penn State is a major player in keeping the state's foremost industry—agriculture—on the cutting edge of world developments. Studies of pasture practices in the dairy industry by Penn State agricultural sciences researchers have evaluated new grass and legume species well suited for Pennsylvania conditions and improved grazing techniques.



"Penn State's mission is distinctive within Pennsylvania's higher education community. Our programs of teaching, research and public service bring us

into partnership with citizens, business and industry, government and other organizations throughout the Commonwealth. Penn State touches the lives of virtually every Pennsylvanian."



Graham B. Spanier, President, The Pennsylvania State University

Each year, Penn State's Animal Diagnostic Laboratory analyzes approximately 10,000 milk samples to identify the causes of bacterial mastitis (an infection that affects a cow's ability to produce quality milk) for dairy veterinarians. Each month, the Pennsylvania Dairy Herd Improvement Association, which Penn State helped establish, analyzes more than 200,000 milk samples for somatic cell count, a method for detecting mastitis.

A Penn State Integrated Pest Management program tailored to the state's annual alfalfa harvest helps family farmers fight the crop losses and associated economic impacts due to insect damage. The program saves an estimated \$1.9 million annually in potential losses.

Although Pennsylvania leads the nation in growing potatoes for potato chip production, the state's natural environment is not kind to the tubers. Since 1988, a Penn State potato research program has worked with other universities to release three potato varieties and help document two additional ones that grow well in Pennsylvania's climate and are ideal for chip processing.

In the 1920s, Penn State became America's first land grant college to mount a comprehensive mushroom research program. Since then, researchers have

continued to develop improved compost and production practices that growers worldwide have adopted and that also help Pennsylvania retain its leadership as the nation's leading source of domestic mushrooms.

ECONOMIC CHALLENGES

Penn State is helping the Commonwealth face a variety of economic challenges. The Skills Training and Employment Program for Upgrading Personnel (STEP-UP) was created by Penn State psychology researchers as a worker-oriented counseling tool to help displaced military base or shipyard employees find new jobs. Originally designed for the Philadelphia Naval Shipyard and Base, the computer tool consists of databases and software that assist a counselor in evaluating a worker's areas of competence and identifying matches between those and actual or anticipated job openings. STEP-UP also aids in identifying retraining needs.

Improved economic opportunities for Pennsylvania's coal industry are the aim of a Combustion Laboratory project to develop coal-water slurry for use in boilers originally designed to burn oil. This could make coal a more attractive heating alternative for such institutions as hospitals, army bases and other medium-scale facilities.

The state's Municipal Waste Planning, Recycling and Reduction Act requires more than 400 Pennsylvania towns to recycle newspaper at an average cost of \$10 per ton. Penn State researchers showed that shredding the newspaper and reselling it to farms as bedding material for dairy and feed cattle constitutes an economical and environmentally sound outlet for the material. The process is keeping at least 175,000 tons of waste newspaper out of landfills each year.

The federal Land-Grant Act of 1862

"The leading object [of land-grant universities] shall be, without excluding scientific and classical studies... to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the states may prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

PENNTAP, the Pennsylvania Technical Assistance Program, a partnership since 1965 between the Pa. Department of Commerce, the U.S. Economic Development Administration and Penn State, is serving more than 700 client organizations by providing free scientific and technological assistance from offices across the state. In 1995, clients reported \$10 million in economic benefits as a result of PENNTAP assistance.



Penn State Master Gardener
and Urban Gardening programs strengthen the state's \$438 million home horticulture industry and help families generate surplus produce for extra income. In Philadelphia, 470 urban community food gardens covered more than 2 million square feet.

Education

TRADITIONAL CLASSROOM INSTRUCTION

Penn State has more than 340,000 living alumni, including nearly 200,000 Pennsylvania residents. One in every 720 Americans and one in every 70 Pennsylvanians is a Penn State graduate. About one in eight Pennsylvanians who hold a baccalaureate degree, and about one in 40 who hold a professional or graduate degree earned it from Penn State.

PRE-COLLEGE INSTRUCTION

The Pennsylvania Governor's School for the Agricultural Sciences, now in its 10th year, is a five-week intensive study program that brings 60-70 Pennsylvania high school students to Penn State each summer to explore scientific concepts, use sophisticated laboratory equipment and interact with professional scientists.

4-H youth development programs delivered through Penn State Cooperative Extension annually involve 117,000 Pennsylvania young people in animal and plant science, engineering, life sciences, citizenship and leadership skills programs.

ONGOING EDUCATION

Penn State offers many programs to professionals in a variety of fields, some through Continuing and Distance Education (C&DE) conferences and institutes, which annually serve more than 32,000 people from across Pennsylvania.

The College of the Liberal Arts, through its C&DE component, offers an Executive Police Training program 35 times throughout the year to more than 1,000 police on leadership, communication and organizational development.

The Capital Area Writing Project, run by Penn State Harrisburg with the U.S. Department of Education, covers 20 Pennsylvania counties and serves 131 school districts; the project's teacher-consultants offer professional development programs for more than 150 teachers annually.

Penn State, through the Cooperative Extension's Expanded Food and Nutrition Education Program and a variety of Centre Region community organizations, provides the only SuperCupboards programming available in Centre County. SuperCupboards, a program of the Pennsylvania Coalition on Food and Nutrition, addresses the problems of hunger and poverty by teaching good nutritional habits and cooking skills.

All told, Cooperative Extension, with offices in each of Pennsylvania's 67 counties and with the assistance of 50,000 volunteers statewide, delivers research-based educational programs to about 750,000 Pennsylvania households.

OPPORTUNITIES FOR UNDER-REPRESENTED GROUPS

Hispanics for Academic Progress assists selected high school students to develop study skills and a positive learning attitude and provides guidance for educational and career opportunities.

Mathematics: Opportunities in Engineering, Science and Technology (MOEST), begun at the Penn State York Campus, enriches the education of African American and Latino Students in science and mathematics.

Among more than 100 colleges and universities in Pennsylvania, Penn State ranks second in the enrollment of African Americans and graduates more of these students than any other institution in the Commonwealth.

The annual Food and Agricultural Sciences Summer Workshop brings 30 academically talented minority high school sophomores and juniors to the University Park Campus for one week to attend educational seminars, meet with faculty and tour college facilities.

The Penn State Educational Partnership Program (PEPP), offered in Reading, McKeesport and Philadelphia, is an early intervention collaboration between Penn State and Pennsylvania secondary schools that help at-risk youths.

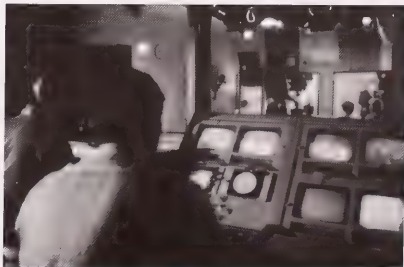
Information Resources

The Pennsylvania State Data Center, established at Penn State Harrisburg by order of the governor in 1981 as the state's official source of economic and population statistics, annually serves more than 12,000 clients, including academic researchers, state and local governments, national corporations and private citizens.

The PENPages Consumer Information database originates from Penn State researchers and three other national consumer information databases and is accessible by computer by 80 percent of Pennsylvania's residents.

WPSX-TV, owned and operated by Penn State at the University Park Campus and affiliated with the Public Broadcasting System, offers instructional, public affairs and cultural education opportunities to 286,000 Pennsylvania households. WPSU Radio, a National Public Radio member station also based at the University Park Campus, extends public affairs and cultural programming from Penn State to 325,000 potential listeners throughout central Pennsylvania.

WPSX-TV, owned and operated by Penn State, offers instructional, public affairs and cultural education opportunities to 286,000 Pennsylvania households.





Injured birds of prey are tended at Penn State's Shaver's Creek Environmental Center.

Natural Environment

Various Penn State programs and research efforts address environmental challenges and education across the state. For example, the Forest Stewardship Program, with the assistance of volunteers, has delivered wood forest management education programs to more than 12,000 landowners.

The College of Arts and Architecture teamed with the state Department of Environmental Resources to create a Wild and Scenic Rivers in Pennsylvania Utilization project on river maintenance and public access and recreation.

The Municipal Tree Restoration Program is a cooperative effort of arboricultural firms, Penn State's School of Forest Resources, the Pennsylvania Bureau of Forestry, and utility companies. Communities are provided with 50 free trees in return for planting and maintaining them according to research specifications, saving municipalities as much as \$500 per tree.

Penn State Cooperative Extension and the League of Women Voters teamed up to create the Pennsylvania Groundwater Policy Education Project (PA-GPEP). The momentum and awareness generated by a PA-GPEP-funded local project helped an Allegheny County coalition obtain a \$100,000 state grant to implement wellhead protection programs. Eleven other coalitions around the state received similar funding as a result of the project.

Health and Well Being

Penn State helps Pennsylvanians get healthy and stay healthy through a variety of programs and services. The Continuing Medical Education Outreach Program, based in the College of Medicine at the Milton S. Hensley Medical Center, works with 25 rural Pennsylvania hospitals to share information on technology transfer, research, and education issues. Also to improve rural health care in Pennsylvania, the College of Medicine is working through affiliate hospitals and health care agencies to increase the numbers of family physicians and general practitioners in rural and underserved areas.

Researchers in the College of Health and Human Development are collaborating with the Pennsylvania Department of Aging on a series of studies involving more than half a million older adults who participate in Pennsylvania's PACE (Pharmaceutical Assistance Contract for the Elderly) program. The research aims to improve the health of PACE beneficiaries and reduce the program's costs.

Faculty in the Center for Locomotion Studies and the College of Medicine have collaborated with local physicians to establish Diabetes Foot Clinics in Centre County and Hensley. Their efforts help predict which patients with diabetes are most likely to develop foot complications, their work also helps prevent amputations in this high-risk group.

Faculty in the School of Hotel, Restaurant, and Recreation Management have developed and tested more than 50 new recipes for the USDA's National School Lunch Program and School Breakfast Program. Ninety-two thousand public and private schools around the country, including many in Pennsylvania, have begun using the recipes.

A major research project focuses on improving prenatal care for low-income women (and in turn improving the health of their babies) throughout Pennsylvania. The program focuses particularly on Philadelphia, where 17 of every 1,000 infants fail to survive to their first birthday. Faculty in the College of Health and Human Development and the College of Medicine are collaborating with the state Department of Health and Department of Public Welfare on the project.

The Penn State Nutrition Center and the Pennsylvania Department of Education have initiated state-of-the-art programs for incorporating nutrition into the school curriculum. Faculty are also developing programs for teaching good nutrition to a number of at-risk or hard-to-reach populations, including older adults, inner-city African Americans, residents of rural areas, and people with low literacy.

College of Health and Human Development outreach programs, including conferences, workshops, and professional development programs, serve more than 22,000 people each year.

The Fine and Performing Arts

Penn State also offers the public many opportunities for cultural experiences. The Palmer Museum of Art at the University Park Campus is the largest art museum between Philadelphia and Pittsburgh. It welcomed more than 55,000 individuals in 1994-95 and houses fine art encompassing 35 centuries of painting, sculpture and ceramics from the United States, Europe, Asia and South America; all exhibitions are free to the public. Recently, the museum mounted major exhibitions on Rembrandt and medieval art, both of which are now touring Pennsylvania. *Medieval Art: Patterns of Collecting 1800-1940* is an overview of the collecting of Western medieval art in America based on a survey of the major collections of medieval art in the eastern and central United States, where the earliest collections were formed.

Penn State's School of Music supports a variety of student choral and instrumental groups that routinely tour Pennsylvania

presenting concerts and assemblies for high school and area audiences. Faculty work with high school students in reading and interpreting music.

"Drama Duo (plus one)" produces dramatic presentations for the Arts in Education Program of Central Intermediate Unit 10, serving schools and districts in Centre, Clearfield and Clinton counties. The productions are seen by approximately 14,000 Pennsylvania school children each year.

The 16,500-seat Bryce Jordan Center, just opened this year, hosts large-scale sporting events and concerts and offers the area's newest facilities for major conferences. The center is expected to generate at least 500 permanent jobs in the State College area and an annual economic impact of \$24 million for central Pennsylvania, mostly in the form of increased food service and lodging activities, retail shopping and transportation-related expenditures.



Researchers at Penn State's Noll Physiological Research

Center have shown that weight training can greatly benefit the health of older adults. They have set up weight training programs in nursing homes and are now working with the Commonwealth's "Prime Time Health" initiative to encourage strength training in older adults throughout Pennsylvania.

WEB
BROWSERBy DOUG STANFIELD
technology editor

We're going to focus on three things this week: finding stuff on the Web, finding free stuff on the Web and finding out about the "Web-cam."

As anyone who's spent time wading through a forest of truly fascinating personal home pages knows, the real problem is finding what you want in under two hours. The sheer quantity of information makes any kind of search a struggle between duty and distraction.

If this has been a problem, you might want to check out a new search engine called "Starting Point." It's not a stand-alone utility like Yahoo, but instead makes it easy for you to search Yahoo, Alta Vista, InfoSeek, WebCrawler and eight to 10 other search engines. Plus has added features that make it a real timesaver.

Starting Point also has links to topical information. The people running this have done a nice job with the design and implementation, and the connection seems to be fast and trouble-free.

URL: <http://www.stpl.com/>

Links to free materials

Everything has a price these days, but there are still a few holdouts against the commercial tide now surging through the Web.

One such resource is "Tabitha's Freebies Page." Tabitha has collected links to free sources of Web authoring tools, online contests, games, freeware and shareware, recipes, coupons, catalogs, computer-related items and even one link that takes you to other lists of freebies.

It takes time to sort the candy from the wrapper, and this site is no exception. Also, be careful to check anything you download for viruses. You're on your own.

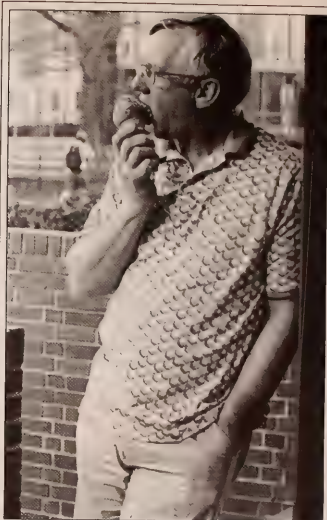
Web-cam

As the text says when you connect to this site, "Wondering what the weather looks like around the country right now? Select a link below to get a semi-live picture of your favorite city or resort. Using WeatherNet's WebcamCam page, you can travel around the country from your desktop!"

You'll have to try this one for yourself.

Main URL: <http://cirrus.sprl.umich.edu/uxnet/uxcam.html>

If you know of an unusual or particularly innovative use of the Web, please send the URL to dux@psu.edu.



Yummy

There's nothing more satisfying on a warm spring day than eating a Creamery ice cream cone on the Pavilion Theatre patio. At least that's the way Marcell Voith of State College felt recently, as he stopped for some of the frozen treat with his wife, Karen, daughter, Sara, and son, Jon. Although students are leaving for the summer, the Creamery will still be open. Year-round hours are 7 a.m. to 10 p.m. Monday through Friday; 8 a.m. to 10 p.m. Saturday; and 9 a.m. to 10 p.m. Sunday.

Photo: Christie Guldner

New Faculty Senate officers are installed

At the conclusion of the University Faculty Senate's April 23 meeting, its last for this academic year, outgoing Senate Chairman Peter Jurs turned over the gavel to incoming chair Scott Kretchmar.

Both Jurs and Kretchmar praised the University administration, Jurs citing University President Graham B. Spanier's "appreciation for collegial governance and shared decision making," and Kretchmar his "refreshingly open, collaborative and collegial administration."

Joining Kretchmar as Senate officers for the coming year are chair-elect Louis F. Geschwindner Jr., who served as secretary this year, and Veronica Burns Lucas, the new secretary. George Franz is continuing as Senate parliamentarian.

In other business, the Senate:

- clarified procedures for "academic renewal," through which former students may apply for readmission after an interruption of at least four calendar years;

- made a single standing subcommittee responsible for reviewing all general education courses, rather than seven consultative committees;

- changed from 30 days to 60 days the maximum period within which the Senate's Faculty Rights and Responsibilities Committee must decide whether it responds to a complaint by holding a formal hearing or conducting an informal review; and

- revised its guidelines for giving immediate tenure to individuals being considered for faculty or administrative positions.

The Senate's first meeting of the fall 1996 semester will be held at 1:30 p.m. Sept. 10 in Room 112, Kern Building.

Arts

continued from page 8

- "Ain't Misbehavin'," a rollicking tribute to Fats Waller, comes to Eisenhower Auditorium March 5 and 6.
- Gershwin on Ice, starring Peggy Fleming, will hold the distinction of being the first ice show performed on the Eisenhower stage at 8 p.m. Friday, Jan. 17.
- The Lewitzky Dance Company will present a new work co-commissioned by the Center for the Performing Arts called "Four Women in Time." The company will be in residence at Penn State for a week, culminating in a performance at 8 p.m. on Nov. 9.
- Roy Hargrove was rated by many jazz magazines as the number one trumpeter in the world last year. He brings his quintet to Penn State Oct. 5.
- The Flying Karamazov Brothers, a vaudeville-style comedy/theatre troupe, offer a performance on Oct. 6.

For a free brochure or more information, contact the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) ARTS-TIX.

Other scheduled performances, all in Eisenhower Auditorium unless otherwise noted, include:

- Romeo and Juliet, 8 p.m. Saturday, Sept. 21
- Sanford Sylvan, baritone, and David Breitman, pianist, 8 p.m. Thursday, Sept. 26, Schwab Auditorium
- The Tibetan Song and Dance Ensemble from the Snow Fields of China, 8 p.m. Friday, Oct. 4
- Roy Hargrove Quintet, 8 p.m. Saturday, Oct. 5
- "The Sound of Music," 8 p.m. Thursday and Friday, Oct. 10 and 11
- New York Voices, 8 p.m. Thursday, Oct. 24
- London Chamber Orchestra, 8 p.m. Friday, Oct. 25
- "Annie Get Your Gun," 8 p.m. Tuesday, Oct. 29
- Brian Friel's "Philadelphia, Here I Come!," 8 p.m. Friday, Nov. 1
- Cathy and Marcy, 2 p.m. and 4 p.m. Sunday, Nov. 10
- Czech Philharmonic Orchestra, 8 p.m. Saturday, Nov. 16
- Amernet String Quartet with St. Lawrence String Quartet, 8 p.m. Thursday, Nov. 21, Schwab Auditorium
- Mummenschanz, 8 p.m. Friday, Jan. 24
- Martha Graham Dance Company, 8 p.m. Saturday, Jan. 25
- Mazowsze, 8 p.m. Thursday, Feb. 6
- "La Boheme," 8 p.m. Saturday, Feb. 8, and 3 p.m. Sunday, Feb. 9
- Battle of the Big Bands, Round 2, 8 p.m. Saturday, Feb. 15
- Nai-Ni Chen Dance Company, 3 p.m. Sunday, Feb. 16
- National Traditional Orchestra of China, 8 p.m. Saturday, Feb. 22
- Los Angeles Piano Quartet, 8 p.m. Saturday, March 1, Schwab Auditorium
- Artis Quartet, 8 p.m. Friday, March 21, Schwab Auditorium
- "Wind in the Willows," 3 p.m. Sunday, March 23
- "A Thousand and One Nights," 8 p.m. Friday, April 4
- "Grease," 8 p.m. Wednesday and Thursday, April 9 and 10
- Cleo Laine and the John Dankworth Group, 8 p.m. Saturday, April 12
- "To Kill a Mockingbird," 8 p.m. Friday, April 18
- Syracuse Symphony Orchestra, 8 p.m. Saturday, April 19
- "Singin' in the Rain," 8 p.m. Wednesday, April 30 and Thursday, May 1

Highlight on Undergraduate Education



Preparing the experiment

Anthropology students Amy Deunir, left, Cindy Capulpo and Regina Stupak scatter prismatic obsidian blades on the grass in an exercise designed to create use-wear patterns on the pieces. The students then trampled on the blades, which are replicas of commonly used prehistoric tools, and checked their results.

Photo: Greg Grieco

Students discover campus' past

By ANDREA ELYSE MESSER
Public Information

If you happened to see students crawling around the foundations of buildings this winter, have no fear, it wasn't some new student ritual, but an assignment for Ken Hirth's undergraduate laboratory in archaeology. The students were looking for cornerstones or other indicators of when the buildings were erected.

"We were trying to retrieve the construction pattern from the information available and reconstruct how the campus was built," said Amy J. Vonarx, first-semester senior in anthropology. "What was surprising is that not all of the buildings had cornerstones."

Instead, some of the buildings had commemorative plaques mounted inside, frequently near fireplaces, the students noted.

"The problem with commemorative plaques is they don't necessarily provide the date the building was erected," Vonarx said. This is not unlike dated materials found at archaeological sites throughout the world. For example, the date when a tree is cut down might be known, but when that tree was used to construct a house or when the house was abandoned is not known.

The students were looking for patterns in building construction — possibly going outward from a central point, concentrations of buildings erected during one time period or random building events.

"If seems there were a lot more buildings built in the '60s," Joshua Borstein, graduate student in anthropology, said. "There are periods of time when construction increased and also times when it decreased or stopped completely."

One significant period of increase was just after World War II. Overall, however, the students found that construction was generally random. While clumps of residence halls were all built at the same time, buildings



Artifacts re-created

Students used simulated prehistoric tools called prismatic obsidian blades for one experiment.

seem to be placed wherever space was available.

Reconstructing building patterns was not the only goal of the outdoor laboratory experiment. Recently, students took newly made stone tools in the form of prismatic obsidian blades (volcanic glass commonly used as tools throughout prehistoric times) — and trampled them in various locations on campus. The goal of this exercise was to try to create use-wear patterns that signified trampling rather than wear from cutting or scraping.

"I think the blades will break across rather than nick at the edges or break on the long axis," Gerry Wagner, a junior in anthropology, predicted.

The groups tested trampling on grass, dirt and concrete — the closest thing on campus to the plaster floors found in many ancient civilizations — by placing the blades on the ground and walking on them.

"Each group had to create its own research design," Vonarx said. "Our group decided to use moccasins for trampling to try to keep as many variables the same as they would have been in prehistoric times."

"This class is experiential," said Hirth, professor of anthropology and manufacturer of the prismatic blades. "The students are exposed to a variety of ways to analyze materials and artifacts."

The class spent long hours categorizing pottery and lithics — stone tools. After their analysis and drawing, they checked their results against the actual archaeological site reports. They could then judge how closely their work mirrored the actual results and gauge how accomplished they had become.

"Frequently, undergraduate laboratories consist of students working with a professor on research," said Hirth. "While this is valuable, it often covers only a single aspect of analysis. Students need to have exposure to all the types of materials they will need to analyze — ceramics, flaked stone, plant remains — as practicing archaeologists."

Alumni ready for Service Week

Thousands of Penn State graduates nationwide will soon be involved in the second annual National Service Week, the University Alumni Association's community service initiative. The week of May 13-19 has been designated as National Service Week for Penn State and their friends.

This special program presents individuals and alumni groups across the country with opportunities to perform service-oriented tasks that benefit their local communities in the name of Penn State.

Last year several thousand people from 85 alumni groups in 20 states and the District of Columbia participated in community service projects. With a membership of more than 135,000 alumni, the Penn State Alumni Association is the first alumni body to undertake a weeklong nationwide community service initiative.

This year, participants from 94 alumni organizations in 28 states and the District of Columbia will do volunteer work.

Projects will include housing construction with Habitat for Humanity; volunteer work at blood drives and in homeless shelters, collection of food for food banks, beautification projects at senior centers and adult daycare centers, and highway cleanup programs, in addition to assisting with events at established programs like Special Olympics, Second Mile Golf and public broadcasting stations.

Last year's efforts garnered the Penn State Alumni Association first place honors for community service in the 1995 Awards of Excellence: Chapter Relations Program from the American Society of Association Executives.

Coordinator sought

An individual is being sought to help in the coordination of the University Park Campus Master Plan. The position of faculty planning coordinator is a half-time faculty post with possible full-time status (with summer months included) with wide-ranging responsibilities.

The person in this position will be responsible for: developing input from the academic community; serving on the master plan steering committee; assisting in preparing consultant's scope of work; gathering inventory and confirming data; assisting in the senior planning consultant search; assisting in the search for contracting with academic consultants; recruiting and organizing student teams; assisting in the coordination, review and selection of preliminary master plan options and in the selection of the options developed; assisting in dissemination of information; and assisting in obtaining grants.

Qualified candidates must be full-time faculty members; have experience with professional urban design and master planning processes; have the ability to work with all levels of the University community; and possess excellent analytical and writing skills.

Anyone interested should reply by May 15 to the membership and recruitment of relevant experience to William J. Anderson Jr., 201 Physical Plant Building, University Park, Pa. 16802.

Extra-curricular activities enhance Fulbright experience

In its 50th year of existence, the Fulbright Program is still changing people's lives. At Penn State, this has been a landmark year for the Fulbright Program, and Gerhard F. Strasser should know.

April 10 was not a normal day for Strasser, professor of German. Instead of lecturing to one of his classes, Strasser maneuvered a minibus over the mountains toward the Amish markets in Belleville, describing local history through an intercom system to a dozen visiting international Fulbright scholars and students. His passengers had already heard a lecture on Amish culture the evening before by Ernst Schurer, also a professor of German, and were now on their way to see the people, their buggies and their auction, taste food from Amish stalls and buy crafts from Amish shops.

This tour was the third arranged during this academic year by members of the Central Pennsylvania Fulbright Association and the International Hospitality Council. The tours were funded by a mini-grant from the National Association of Foreign Student Advisers to enrich the experience of Penn State's international Fulbright visitors. The first two outings were day tours of

Boalsburg and Bellefonte during the fall semester, where visitors heard local history, met civic leaders and went on walking tours. During the spring semester, they also had the chance to experience Pennsylvania farm life by staying with Mennonite families.

This year, the number of visiting Fulbright scholars climbed to a record high of 14, while visiting Fulbright students numbered 25. In addition, the University has led the nation for the last two years in the number of Penn State faculty and staff members winning Fulbright grants—14 were successful in 1995-96 and 16 in 1994-95.

"People are changed by international experiences," President Graham B. Spanier said, "especially by extending hospitality on one's own turf. The chance to learn about others and the chance for others to learn about us are equally important to the development of mutual understanding, tolerance and respect."

Strasser brought President Spanier's words to life as he parked his minibus beside the Amish buggies and released his cargo of Latin Americans, Europeans and South East Asians into the markets at Belleville.

University to conduct water resource studies

Penn State has been selected as one of four institutes across the nation to coordinate research activities involving water resources. The Environmental Resources Research Institute (ERRI) here at Penn State, headed by Archie J. McDonnell, will serve as the authority responsible for overseeing research activities in the Northeast region of the United States.

Since 1965, Water Resources Research Institutes have existed in each of the 50 states, the trust territories and the District of Columbia. This network of research institutes is responsible for planning and conducting research in the fields of water resources; training and educating future water scientists, engineers and technicians; embarking on preliminary exploration of new ideas that address water problems; and disseminating research results. Because of its expertise in the areas of water resources and environmental research, Penn State's ERRI will now coordinate these activities on a regional basis, working with 13 other institutions which include the universities of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, Cornell, Rutgers, Delaware, Maryland, District of Columbia, West Virginia and Virginia Tech.

Faculty/Staff Alerts

Ways to get grades

Although grade reports are no longer being mailed, three methods are available for all Penn State students to get their grades:

- **By telephone:** by calling toll free (800) 876-0354. Callers will need to have their student ID and PAC numbers ready when they call. If they do not have a PAC number, they may create one on their first call. Grades are available for the current semester. There will be a 30-second promotional message before the grades are announced.

- **By degree audit report:** available from the student's academic adviser by the third week of the following semester.

- **By OASIS:** the Open Access to the Student Information System computers, available at all Penn State Campus locations.

Data Tape Program

The Population Research Institute will participate in the National Center for Health Statistics' (NCHS) Public Use Data Tape Program. This means instructors and researchers at Penn State are eligible to receive NCHS data files free of charge. As part of the proposal to NCHS, the institute agreed to disseminate information about the program and serve as coordinator of the program at the University Park Campus.

A member of the institute's computer staff will serve as NCHS Data Tape Program coordinator. Copies of the NCHS catalog of electronic data products and request for data acquisition forms are available from both the NCHS data tape coordinator, 601 Oswald Tower, and Chris Avery, social sciences reference librarian, in E108 Pattee Library.

Additional information on NCHS data products is available on NCHS' home page at URL <http://ftp://www.nchs.gov/nchs/home.htm>.

For more information about the NCHS Public Use Data Tape Program, please contact Mike Zimmerman at (814) 863-7377 or nchs-data@pop.psu.edu.

Bug camps

As the most plentiful creatures on Earth, insects provide abundant opportunities for learning about biological, ecology and the environment.

The Department of Entomology in the College of Agricultural Sciences is sponsoring two events at the University Park Campus in June that will focus on children's curiosity and teacher education to promote insects as informal and classroom learning tools. "Bug Camp for Teachers" will be held June 18-20 and "Bug Camp for Kids" will take place June 24-27.

Through a series of hands-on laboratory and field sessions, participants in Bug Camp for Teachers will learn the major groups of arthropods and see how they can be used to teach abstract math and science concepts. The course can be taken for graduate credit.

Bug Camp for Kids is a day camp for children 8-12 years old. Campers will take field trips twice to observe and collect insects, and participate in hands-on laboratory exercises using insects to experience a broad range of biological, ecological and environmental topics.

For information on registration and fees, contact the Office of Conferences and Short Courses at (814) 865-8301.

Penn State shapes the world

The Office of University Relations is producing a two-foot-by-three-foot, varnished, four-color poster version of "50 Ways Penn State Has Shaped the World," which should be available in mid-June. To place a pre-publication order (minimum order of 20 copies for \$50) or for more information, please send e-mail to mxb13@psu.edu. Individual copies may be available after June 15.

Department name change

Reflecting an evolution that has taken place over the past decade, the Department of Exercise and Sport Science has changed its name to the Department of Kinesiology. The change—approved by the Board of Trustees—reflects the name of the department as well as the name of the undergraduate and graduate majors.

Kinesiology, or the study of human movement, encompasses exercise, sport and other forms of

physical activity, such as work, dance and activities of daily living, (such as walking, lifting groceries and going up and down steps.)

Faculty in the kinesiology department conduct research on—and the curriculum focuses on—many aspects of movement.

The kinesiology department is interdisciplinary, with faculty having backgrounds not only in kinesiology but also in physiology, anthropology, psychology and biology. Their research is funded by such entities as the National Institutes of Health, NASA, the National Science Foundation, the U.S. Olympic Committee, the NCAA and private foundations.

E-mail function now available in LIAS

Thanks to the new EMAIL command in the Library Information Access System (LIAS), you can save time by sending information from LIAS screens directly to your e-mail account. Instead of manually recording information, such as title and call number, you can simply send the information to a valid e-mail account and access it at your convenience. EMAIL also can be used to send copies of full-text articles from journal databases such as Periodicals Abstracts and ABI/Inform to your account.

To use the command, type "email" followed by your e-mail address. A copy of the requested record or citation(s) will be mailed to your account. The screen will clear for a moment and then indicate the "mail was sent." For more information on the use of the EMAIL command, at the LIAS prompt (>>>) type help email.

Employee Assistance Program

The close of an academic year often places a great deal of stress on the University's faculty and staff. Many times an objective view can help put things into perspective. To take advantage of free, professional consultation call the Penn State Employee Assistance Program (EAP). The EAP can be reached at 1-800-858-2F5U (858-2778). Faculty and staff at The Milton S. Hershey Medical Center should call (800) 543-5080.

The following story is part of an ongoing series on auxiliary enterprises of the University, which are largely self-supporting.

Students have gained much from University's bookstore contract with Barnes & Noble

By MARY KAY HORT
University Relations

Two-and-a-half years into the contract Barnes & Noble made with the University to manage the Penn State Bookstores, the students of Penn State are the No. 1 beneficiaries of the partnership.

"Without this scholarship money, it would have been much more difficult for me to afford to attend Penn State," said freshman David Ruddy, when reflecting on the Academic Excellence Award he received this year. "I guess I might not be here at all."

The award was made possible by the partnership between the Penn State Bookstores and Barnes & Noble.

David is a freshman computer science major at the Penn State Wilkes-Barre Campus. As valedictorian of his high school class in Wilkes-Barre, he had several universities from which to choose.

Through July 1995, the partnership between Penn State and Barnes & Noble has yielded more than \$3 million for Academic Excellence Awards at the University Park Campus; the Commonwealth Educational System campuses; Penn State Erie, The Behrend College; and Penn State Harrisburg. In addition, the contract has provided for \$1.5 million in support for the Patten Library and HUB/Robeson building funds (\$700,000 each) and University Park Campus bike paths (\$100,000). Over the 10-year contract period, the relationship with the nation's largest bookstore will have provided \$18.5 million to be used for various University initiatives.

"When Barnes & Noble entered into negotiations with the University, one of the primary goals of both parties was identifying dollars to support student initiatives," Steve Falke, regional manager of the Penn State Bookstore, said. "We feel that we are not only operating a great bookstore for the University community, but also making significant resources available that will help students fund their education and provide them with a better educational experience."

According to Falke, over the course of the contract, Penn State Bookstores will provide \$6.87 million for scholarships for students at the University Park Campus and \$5.87 million for scholarships for students at other campuses. These scholarships have already helped to recruit dozens of academically talented, service-minded students.

One such student is Michael Kowalewski. As president of his high school senior class in Sweet Valley and of his national honor society chapter, Michael was considering several colleges. Since he's planning to attend veterinarian school, he was concerned



Lending a helping hand

Student employee Pietro Porco reorganizes books on the shelves of the Penn State Bookstore on the University Park Campus. The bookstore, managed by Barnes & Noble, not only provides jobs but also provides scholarship funds. Over the 10-year period that Penn State has contracted with Barnes & Noble, the bookseller will provide \$18.5 million to the University for various initiatives.

Photo: Greg Grieco

about incurring too much debt as an undergraduate. The Academic Excellence Award that the Wilkes-Barre Campus was able to offer Michael played a large part in his decision to attend Penn State.

"I didn't get any federal or state financial aid," he explained. "Since I received the scholarship, I haven't had to get any student loans. It's great not to have to worry about the financial stuff during my first year."

Barnes & Noble also committed \$1.05 million for renovating bookstores at University Park and other Penn State campuses. In addition, the contract results in an annual contribution of \$320,000 to CES, Penn State-Behrend and Penn State Harrisburg Campus Student Related Capital Improvement Fund. This fund aims to improve student facilities at Penn State locations other than University Park. Some of the projects completed with the proceeds from the fund include the Slep Union Building renovation on the Altoona Campus, the addition of theatre lighting at the Beaver Campus, athletic fields at Penn State-Behrend, a sand volleyball court at the McKeesport Campus and picnic area equipment for the Schuylkill Campus.

Falke said Barnes & Noble is looking for still more ways to meet the needs of students. The company is channeling an additional \$50,000 into student initiatives and is working with

student groups to identify areas where the funds can best be used. To date, they have sponsored athletic advertising, underwritten the costs of producing The Councilor (CES newsletter) and supported voter registration drives.

Barnes & Noble is part of a larger network of collegiate booksellers that is often able to pass special promotional offers along to their patrons.

"For example, we recognized the amount of time student assistants spent with the residents they oversee during the first few weeks of the semester, so we created an 'RA Night' for them," Falke said. "They were able to come into the store on a night when the store was normally closed and shop without the crowds. We also were able to give them a discount."

Students also may take advantage of employment and internship opportunities at the Penn State Bookstores. The bookstores employ 75 students at all locations, about 45 percent of their total work force. Falke added that Barnes & Noble is working on creating a student internship in which a junior works at the bookstore, learning all aspects of the bookstore business—shipping, receiving, ordering and merchandising. After graduation, that student will have job opportunities at one of Barnes & Noble's stores.

"Almost from day one—from the way they handled the transition, to their willingness to work with us—

we've been pleased with our relationship with Barnes & Noble," Gary Schultz, senior vice president for financial and business and University treasurer, said. "They've very capably handled our bookstore system, which is the largest collegiate bookselling system in the nation."

Falke, too, is pleased. "Since assuming management duties of the bookstores, we have increased total gross revenue from just under \$25 million in fiscal year 1993 to \$29 million in fiscal year 1995," he said. "This growth occurred despite a first year of business slowed by the renovation of the University Park bookstore and the construction of a parking deck adjacent to the entrances."

This success has not gone unnoticed in the higher education community. Since signing with Penn State, Barnes & Noble has added Boston University and the Harvard Coop to the list of bookstores they manage, joining Big Ten universities Michigan and Northwestern.

"We are Penn State's says it all," Falke said. "This is Penn State's Bookstore, and we are committed to managing it and its resources the way Penn State wants."

In this case, it's a "win/win" situation in which students are the biggest winners.

Sixty faculty getting ready to hit the highway

About a month ago, President Graham B. Spanier invited newly hired faculty to join him on a road trip across Pennsylvania. Since then, roughly 60 people have eagerly signed up.

On May 15-16, these "road scholars" will visit campuses in Harrisburg, Hershey, Berks and Williamsport, tour businesses, schools and civic organizations and hike through the Hawk Mountain Sanctuary in Kempton, Why?

"It's refreshingly uncool," Susan Squire, Julia Gregg Brill Professor of women's studies and English, said. "The president comes in and realizes that he has new faculty that might enjoy seeing other campuses and learning a little more about the place they work and does something about it."

The "Tour of the Commonwealth" will give faculty hired since July 1, 1994, the opportunity to do

that and more. By the end of the two-day journey, new faculty should have a great deal more insight about the various regions of Pennsylvania that are served by Penn State and see the vast impact the University has on the state as a whole.

"I see this as a positive sign that Dr. Spanier would like us to be exposed to a lot of things about Pennsylvania at large. I'm personally interested in learning and knowing more about the state and how we are making a difference," Ahmed El Sherbini, research associate in the Department of Biochemistry and Molecular Biology, said. "I think this will help us look at how we are currently teaching and performing research and it will make us think about how we can tailor our methods to meet the needs of students and Pennsylvanians." Sherbini has been here for two years and like his colleagues on the trip,

has seen very little of the state. Before joining Penn State, he was in Egypt.

Faculty will also have the opportunity to meet Pennsylvania legislators on the tour.

"I'm very interested in that," Marlena Frackowski, music and audio visual cataloging librarian, said. "It will be interesting to hear from their mouths their reasons for cuts in education, and it will give us the opportunity to argue the points with them." Frackowski has been with the University for one and a half years.

All meals, lodging and transportation for the tour will be provided by the University.

Oh, and for those faculty going on the trip: the official brochure warns you to wear casual clothes and leave your suits and ties home.

Executive director of development to join medical foundation as v.p.

Robert W. Groves, Penn State's executive director of development, has been appointed vice president for development for the Minnesota Medical Foundation effective June 1. Groves will be responsible for all aspects of the foundation's fund-raising efforts.

Groves joined Penn State in May 1990 near the end of the Campaign for Penn State, which raised more than \$352 million. His primary responsibilities at the University included managing the major gifts program and directing fund-raising programs in the academic colleges.

During his tenure at Penn State, annual gift totals increased from \$63 million to nearly \$83 million in 1994-95.

Groves played a leadership role in the \$23 million campaign to build The Bryce Jordan Center and the \$14 million campaign for the Paterno Library. Penn State's overall development program received the Council for Advancement and Support of Education's Circle of Excellence award in 1994 and 1995 for exemplary performance in fund raising.

The Minnesota Medical Foundation is the primary fund-raising vehicle for the University of Minnesota Medical Schools in the Twin Cities and Duluth. Last year it raised more than \$18 million and distributed more than \$13 million. It has an endowment of more than \$105 million.

Student is first from Behrend to win Truman Scholarship

For the first time in the history of Penn State Erie, The Behrend College, a student has been named a Truman Scholar. Melissa E. Hayes, a junior political science major from North East, Pa., received the \$30,000 award. She was one of nearly 800 students from 391 institutions around the country nominated for a Truman Scholarship this year. Approximately 60 winners were named nationwide.

The scholarship, a living memorial to President Harry S. Truman, funds the senior year and two years of graduate study for each winner. Truman Scholars also benefit from priority admission and supplemental financial aid at premiere graduate institutions and receive opportunities for special leadership training, career and graduate school counseling and employment opportunities with the federal government.

Winners are selected in recognition of their values, ambitions, achievements, contributions and potential. Hayes balances her full-time student status at Penn State-Erie with between 35 and 40 hours a week in an AmeriCorps Program at North East High School.

Hayes participates in the college's Substantial Scholars Program, and has completed substantial research projects on both the history of national service programs, including VISTA and the Peace Corps, and on the effect Gov. Tom Ridge's proposed voucher plan will have on public education.

Last summer she served as a legislative assistant to Pennsylvania state Rep. Karl Boyes.

She plans to attain a dual degree in law and public policy.

1969 graduate named Harrisburg Alumni Fellow

R. Barry Uber has been named the 1996 Penn State Harrisburg Alumni Fellow.

A 1969 graduate with a bachelor's degree in business administration, Uber will be formally honored during his daylong visit to the college on Oct. 29.

The Alumni Fellow Award is the highest honor given by the Penn State Alumni Association. The Board of Trustees has designated the title as permanent and lifelong.

While pursuing his degree at Penn State Harrisburg, Uber worked for the Ingersoll-Rand Equipment Corp. in Harrisburg as a trainee and co-op student. Following graduation, his career with the firm moved rapidly upward.

In addition to becoming the second youngest vice president in the corporation's history, he crafted the firm's first joint venture with Russia, led several acquisitions and traveled extensively throughout the world, including 25 trips to Japan.

He is president of Ingersoll-Rand's Construction and Mining Group at the firm's world headquarters in Woodcliff Lake, N.J.

Uber's professional career is paralleled by his community commitment. He served on boards of directors for the Keystone Chapter of the Boy Scouts of America, Wilkes University and the Cumberland County Historical Society and co-chaired the Somerset County, N.J., United Way Campaign.

His current Penn State activities include his commitment to the Dean's Advisory for Manufacturing Quality Group and his leadership as a Corporate Champion for the Penn State Recruiting Team.

Uber will share his experiences with faculty, staff, students and the community, and give a keynote lecture in the Olmsted Auditorium.

The event is free to the public. For information, call (717) 948-6272.

Obituaries

Roger Lee Kerlin, a former senior research associate with the systems engineering department at the Applied Research Laboratory, died April 4 at the age of 57.

Dr. Kerlin, who worked for the University for 33 years, retired in 1993. During his tenure, he researched the dynamic properties of materials, vibration and noise, underwater transmission, testing and calibration and beam cantilever

vibration. He was a member of ARL's diversity committee. He earned his bachelor's and master's degrees in physics and his doctorate in engineering acoustics, all from Penn State. He was one of the first enrollees in the graduate acoustics program, where he was later a faculty member.

C. William Pierce, former professor of agricultural economics who

retired in 1973, died April 2 at the age of 84.

Dr. Pierce served as a consultant to The Golden Gurnsey State Club of America, the Milk Administration of New York and the Milk Marketing Board of Pennsylvania. He also served as a consultant in agricultural marketing to the government of Spain for three years.

He received a bachelor of science degree in agricultural economics

from Penn State, a master of science degree in agricultural economics from the University of Maryland and a doctor of philosophy degree in agricultural economics from Cornell University.

Mildred Kay Turner, food service worker, Housing and Food Services, from Sept. 26, 1968, until May 1, 1983; died March 27. She was 67.

American Academy of Arts and Sciences taps anthropology and biology professor as Fellow

Alan C. Walker, professor of anthropology and biology, has been named a Fellow of the American Academy of Arts and Sciences.

He was one of 159 new fellows and 26 foreign honorary members chosen in recognition of their distinguished contributions to science, scholarship, public affairs and the arts.

Walker studies human and primate evolution and pioneered studies of living primates as a basis for analysis of fossil forms. He was one of the first to use scanning electron microscope studies of enamel microwear on teeth to predict dietary adaptations of extinct mammals.

He has studied live Madagascan Lemurs, live East African primates and excavated in England, Madagascar, Uganda and Kenya. His most recent work has been in Kenya's Turkana Basin at Allia Bay in conjunction with Meave Leakey. Walker and Leakey uncovered the remains of a hominid dated as 3.9 million years old to 4.2 million years old that clearly walked upright. They placed this hominid in a new species named *Australopithecus anamensis*.

Walker was editor, with Richard Leakey, of *The Nariokotome Homo erectus Skeleton*, and is co-author with P.



Alan C. Walker

Shipman and D. Bichell of *Structure and Function of the Human Skeleton*. He has just published a popular book on human origins, *The Wisdom of the Bones*, written with Shipman.

He received a John Simon Guggenheim Memorial Foundation Fellowship in 1986; held a John D. and Catherine T. MacArthur Foundation Fellowship from 1988 to 1993; and received the Center for the Study of Evolution and the Origin of Life Distinguished Scientist Award in 1992.

Walker received a B.A. in natural sciences from Cambridge University in 1962 and a Ph.D. in anatomy and

Members of the Academy

The American Academy of Arts and Sciences conducts a program of scholarly projects, studies and publications which address issues of public interest.

Other members of the academy at Penn State are:

■ **Stephen J. Benkovic**, Evan Pugh Professor of chemistry and holder of the Eberly Family Chair in chemistry.

■ **Nina V. Fedoroff**, professor of biology, holder of the Verne M. Williams Chair in life sciences and director of the Biotechnology Institute.

■ **Masatoshi Nei**, Distinguished Professor of biology and director of the Institute of Molecular Evolutionary Genetics.

■ **Calyampudi R. Rao**, holder of the Eberly Family Chair in statistics and director of the Center for Multivariate Analysis.

■ **Robert K. Selander**, holder of the Eberly Family Chair in biology.

■ **David A. Shirley**, professor of chemistry and physics and senior vice president for research and graduate education.

paleontology in 1967 from the University of London. He began his career as a lecturer in anatomy at Makerere University College in Kampala, Uganda, in 1965 and became a senior lecturer in anatomy at the University of Nairobi in 1969.

In 1973 he spent a year as visiting lecturer in the department of anatomy at Harvard University Medical School and then became associate professor of anatomy at Harvard Medical School; associate professor of anthropology, Harvard University; and research associate, Peabody Museum, Harvard University. In 1978 he

became professor of cell biology and anatomy at the Johns Hopkins University School of Medicine. He joined the faculty at Penn State in 1995 as professor of anthropology and biology.

The academy was founded in 1780 "to cultivate every art and science which may tend to advance the interest, honor, dignity and happiness of a free, independent and virtuous people." Today the academy includes more than 4,000 fellows and foreign honorary members from a broad range of geographic, professional and cultural backgrounds.

News in Brief

Professional Women seeking members

The Professional Women at Penn State seeks applicants to replace coordinating council members whose terms expire in June. All individuals in the Penn State community are welcome to apply. Members of the council can gain leadership experience, interact with others throughout the University and achieve an antidote to professional isolation.

Applications must be submitted by May 15. Contact Jo Anne Mengle at (814) 865-3434 or at jzm50@oas.psu.edu to obtain an application form.

Professional Women is a grass-roots group coordinated by University women to develop and maintain a communication network and serve as a resource for other Penn State audiences.

Conservation Education Center dedicated

Local elementary school students dressed as trees will branch out into careers as tour guides as the School of Forest Resources dedicates the Laurel Haven Conservation Education Center, a 50-acre working forest in the Bald Eagle Valley, May 8 at 2 p.m.

Dedication ceremonies will include a tree-planting ceremony and tours throughout the facility. Each tour will be led by tree-clad students. The center, which is part of the Laurel Haven Tree

Farm, is about 1.5 miles northwest of Julian on Beaver Road. Now part of Penn State's College of Agricultural Sciences, Laurel Haven is dedicated to the use of natural resource conservation through sustainable forestry practices. The center and forest land were donated by Jane Madsen and her late husband, Harold Mitzel. Both Madsen and Mitzel are former faculty members in the College of Education.

For more information on the ceremony or the Laurel Haven Conservation Education Center, call Kathy Arney at (814) 863-7093, or John Wall at (814) 863-2719.

Shaver's Creek activities

Beyond the Bird Feeder: From 7-9 a.m. Saturday, May 25. After a winter cooped up inside, now is the time to get outside with an experienced birder to listen to the spring song birds and watch the returning migrant birds; Cost: \$5.50; members \$4.50.

Woodland Wildflower Walk: Sunday, May 26, 2 to 4 p.m. Spring has sprung around Shaver's Creek, so join one of their naturalists in a leisurely walk to view spring in bloom, along with folklore, facts and stories about the wildflowers that grace the forest floor. Cost: \$4; members \$3; children 12 and under \$2.50. Registration is required for most of these programs, so please call the center at (814) 863-2000 and ask for Julie.

HRDC course

The following courses are being offered by the Human Resource Development Center. To register, call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

To see a list and description of other courses available, check the HRDC course catalog or log-in to the Intercom Web site from the home page of the Office of University Relations at URL <http://www.ur.psu.edu>.

Program/Project Management (PRO 032) Designed for faculty and staff who are responsible for managing complex technical programs especially in areas where knowledge of contract requirements is needed or teaming with industry is anticipated. Meets 9 a.m.-4 p.m. Friday, May 24, in 319 Rider Building; cost: \$55.

Understanding Yourself And Others Using The Disc Dimensions Of Behavior Model (PRO 069) By completing the Disc Personal Profile System, participants will be able to describe their individual work styles, appreciate others' behavioral styles and maximize the potential for effective working relationships. This program meets 9 a.m.-4 p.m. Thursday, May 30, in 319 Rider Building; cost \$67.

Research

Transportation engineers helping to improve road sign readability

By BARBARA HALE
Public Information

Feminine folklore holds that men get lost because they won't stop driving to ask for directions. Don't worry. Soon asking for directions may no longer be necessary.

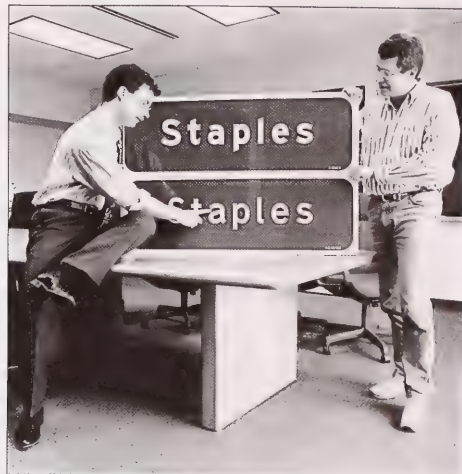
Transportation researchers are helping to make it harder to get lost by improving road sign readability at night, especially for the older driver.

Martin T. Pietrucha, research associate, and Philip Garvey, research assistant, in the University's Pennsylvania Transportation Institute, joined forces with graphic designers Donald Meeker, Harriet Spear and Christopher O'Hara of Larchmont, N.Y., to design and test a new typeface or alphabet style for the signs. The Penn State researchers have shown the typeface results in nighttime legibility distances 16 percent greater than Standard Highway Series E(M), the 50-year-old typeface now used in the U.S. and Canada.

"With a 15-inch letter height, this could increase legibility distance by 150 feet, allowing drivers almost two seconds longer to read highway guide signs," Pietrucha, who is also an assistant professor of civil engineering, said.

The new typeface is called Clearview. It achieves its greater nighttime clarity by avoiding the effects of a phenomenon called "blooming" or "halo-ing."

Garvey said blooming occurs when a car's headlights shine directly on a sign on which letters have been formed from highly reflective material. The letters become, momentarily, so bright that they lose their familiar shape



Philip Garvey, research assistant, left, and Martin T. Pietrucha, research associate, have tested a new road sign typeface that is easier for drivers to read at night. The letters, which are made to reflect headlights, aren't as thick as the current typeface used, so there isn't as much glare in the center of "closed" letters such as "a," "p" and "e" when headlights shine on them.

Photo: Greg Grieco

and look instead like blobs.

Pietrucha said blooming is especially troublesome for those over age 65.

Clearview retains its readability despite blooming because the letters have been designed to have more interior space. The "b," "e," "g" and "a," for example, have more space inside the letters so that when blooming occurs, the overflow doesn't entirely fill them up.

The researchers conducted both laboratory and road tests on Clearview. Eighty people ranging in age from 20 to 50 were recruited from the PTI staff to be the first subjects in the laboratory

tests, which involved reading signs simulated on a computer screen.

"Since standard lettering works OK in the daytime, and we wanted to fix a nighttime problem, we eventually had to conduct field testing at night," Pietrucha said.

In addition, because older drivers are more sensitive to high contrast problems, all field testing was conducted with subjects age 65 and older.

"We figured that if it worked for them, we could be pretty certain that it would work for everybody," Pietrucha said.

Pietrucha said that daytime field tests found no difference between the

legibility of Clearview and that of Highway Standard Series E(M) font.

However, at night, with headlights shining on the highly reflective materials, field tests with older subjects showed that Clearview words could be read from greater distances than words in the standard font on the same size sign panel.

"Part of the reason for this improvement is the fact that the Clearview font requires smaller between-lettering spacing," Pietrucha said.

"Clearview letters can actually be made larger than those in Series E(M) without increasing the sign's overall size."

Some tips for combating "outshopping"

By GARY W. CRAMER
Public Information

Although the effects on sales from lackluster holiday seasons and bad weather supposedly fade, many small-town retailers face ongoing losses to faraway stores that have won over their usual customers. Researchers at the University of Southern Indiana and Penn State said communities should not take this "outshopping" trend lightly.

"When shoppers prefer distant stores to nearby ones, it's usually not just individual businesses in small towns that are threatened—sometimes, the economic health of the whole community is at stake," Sang T. Choe, professor of marketing with the University of Southern Indiana at Evansville, Ind., and lead author of a recent study of outshopping, said.

"Metropolitan retailers are aggressively seeking to attract consumers from ever-greater distances," Glenn A. Pitman, director of the MBA program in The Smeal College of Business Administration, said. "Many small towns that think they are immune to outshopping because the nearest 'big city' shops are so far away and have not yet advertised in their areas could be in for a rude awakening."

Here are some tips from the study for retailers facing outshopping problems:

■ As you seek to maximize customer satisfaction, think of your store as an integrated part of the complete local shopping system.

■ All members in a shopping district must cooperate to ensure they all succeed. Careful mixing of store types and merchandise can enhance the overall image of the district.

■ Stand up and talk to your customer. Small town merchants must highlight local attachment through extensive friendship and quality services. This can differentiate local stores from those in larger cities.

■ Present an up-to-date merchandise mix and maintain well-trained clerks. A large percentage of heavy outshoppers perceive that local businesses carry shoddy merchandise or have poorly trained employees.

■ Track and scan customer attitudes. Knowing and reacting to attitudinal change early will help maintain your customer base.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Coach appointed

Men's basketball coach Jerry Dunn has tapped **Chuck Swenson**, currently director of basketball operations at Duke University, to succeed **Ed DeChellis** on the Penn State staff. Swenson is a former head coach at William & Mary (1987-94), who spent two seasons at Duke.

All-America team

Senior NCAA fencing champion **Olga Kalinovskaya** and record-breaking soccer standout **Stuart Reid** recently were named to the COSIDA-GTE At-Large Academic All-America first team. They became the third and fourth Penn State student-athletes to earn Academic All-America honors this year.

Olympic torch bearer

Field hockey coach **Char Morett**, who won an Olympic bronze medal in field hockey in 1984, has been selected to be a torch bearer for the 1996 Olympic Torch Relay. Morett will run in the Philadelphia area on either June 18 or 19.

Nine lions earn awards

Nine Penn State student-athletes are recipients of the second annual Arthur Ashe Jr. Sports Scholars Awards, presented by *Black Issues in Higher Education* magazine. More than 500 African American, Asian American, Hispanic American and Native American student-athletes from across the nation were honored. In addition to achieving distinction in their respective athletic endeavors, each recipient has maintained a cumulative 3.0 or higher grade point average and is involved in service to their community and/or institution.

Penn State has a pair of two-time Ashe Sports Scholar recipients: **Ivan Contreras** (junior, men's volleyball, Tampa, Mexico); **Nate Goins** (junior, men's track, Downingtown, Pa.); and **Wally Richardson** (junior, football, Sumter, S.C.).

First-time honorees are: **Tricia Lehman** (senior, women's tennis, Malvern, Pa.); **Monty Gillman** (junior, women's track, Springfield Gardens, N.Y.); **Nicole Gillman** (junior, women's track, Springfield Gardens, N.Y.); **Chris Chang** (junior, men's tennis, Wesley Hill, N.Y.); **Pat Hinojosa** (junior, men's soccer, Mandeville, La.); and **Jeff Lear** (junior, men's soccer, Plano, Texas).

Offices move

Intercollegiate Athletic offices are being relocated from Recreation Building to The Bryce Jordan Center. The director of athletics, the administrative staff and all varsity coaches, except football, will move by May 15. The athletic offices are located on the mezzanine level of the new arena at the intersection of University Drive and Curtin Road.



Ready to serve

Members of the University's combined ROTC units march to an awards ceremony to be honored for their academic achievements, leadership and military skills. The ROTC Commissioning Ceremony will be held at 8 p.m., Friday, May 10, in Schwab Auditorium on the University Park Campus.

Photo: Greg Grieco

For the Record

■ **Gordon W. Blood**, chair of the Department of Communication Disorders, was misidentified in a story about summer programs on page 2 of the April 25 issue of *Intercom*.

■ In the April 11 issue of *Intercom* in a story on page 4 about award recipient **M. Lee Upcraft**, his title should have read assistant vice president emeritus for student affairs and research associate at the Center for the Study of Higher Education.

■ In a story on page 17 of the April 18 issue, the name of **Dr. John Joyce**, an Altoona physician and 1979 graduate of Penn State, was inadvertently omitted from the list of trustee candidates up for election. Dr. Joyce's name will appear eighth on the ballot. Ballots must be returned to the trustees office by 9 a.m. Thursday, May 9.

■ Commencement ceremonies at Penn College will be held at 2 p.m. Saturday, May 11, in the Community Arts Center, Williamsport. The incorrect date was given in a listing of commencement ceremonies that appeared on page 6 of the April 25 *Intercom*.

Carpooler

Would like to join a carpool from the Beech Creek or Howard area to University Park. Work hours are 8 a.m. to 5 p.m. Anyone interested call Amanda at (814) 863-6747 until 5 p.m. or (717) 962-2411 after 6 p.m.

PENN STATE



INTERCOM

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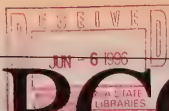
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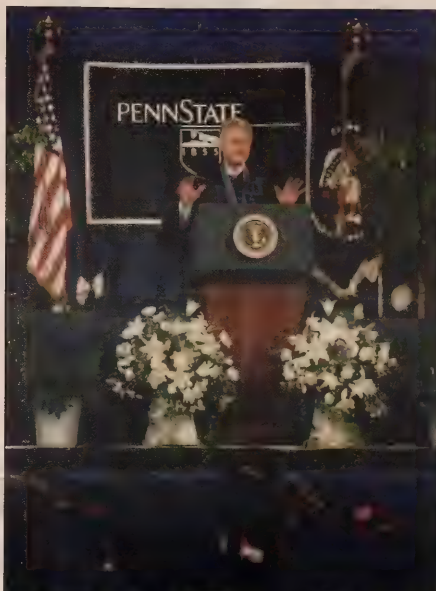
INTERCOM



May 23, 1996

Volume 25, Number 33

"Opportunity, responsibility, community..."



Clinton speaks to graduates

In his May 10 commencement address to graduates at The Bryce Jordan Center on the University Park Campus, President Bill Clinton challenged those in attendance to become involved in serving their communities. For more photos and information on the president's visit, turn to pages 8 and 9.

Photo: Greg Grieco

Trustees seek repeal of 5 percent amusement tax

The Board of Trustees adopted a resolution encouraging College Township—home to both The Bryce Jordan Center and Beaver Stadium—to repeal a 5 percent "amusement tax" it wants to impose on events at the two University-owned facilities.

The trustees' resolution, offered May 10 during the regular board meeting, points out that both the center and the stadium provide "a significant financial benefit to the Centre region" that far outweighs any negative impact on the township. An amusement tax on ticket sales to events at the center and the stadium, says the resolution, would hurt the University's ability to attract events to the center and would probably cut attendance as well.

Also, it says, residents of the county and the region would bear the brunt of the tax's impact. County residents make up 61 percent of those attending athletic and non-athletic events that would be affected by the tax.

The center was built with the

help of \$22.7 million in private funds, of which \$4.9 million was donated by Penn State alumni, other Penn State supporters and businesses in the region.

Penn State is filing a suit to assert that the township council doesn't have the authority to require the University to collect the tax.

The township council voted earlier this month to impose a 5 percent tax, starting Sept. 1, on ticket sales for events at the center and the stadium. College Township is a Centre County municipality contiguous to State College Borough, where the main campus area for University Park is located.

Penn State officials believe the township tax jeopardizes a 1992 agreement through which the University provides about \$1 million in cash and in-kind services to the county, other governmental bodies in the region and the school district. Those funds come in part from a 50-cents-a-ticket impact fee the University charges for sports and entertainment events on cam-

Interim budget gets nod

Because of uncertainties about what the state appropriation for the University will amount to in the coming year, the Board of Trustees on May 10 approved an interim maintenance and operating budget for the fiscal year beginning July 1. The action enables the University to operate in the new fiscal year.

The interim budget was approved at the level of the 1995-96 total operating budget of a little more than \$1.6 billion for all divisions, including The Milton S.

Hershey Medical Center and all auxiliary enterprises.

The interim budget was approved with the recommendation that no action be taken at this time on changes in tuition, salaries and wages, staff benefits or other necessary expense increases.

The University's final 1996-97 total operating budget will be submitted for approval at the July 12 board of trustees meeting, assuming that the state appropriation is clarified by that time.

Inside

Penn Stater named to National Academy of Sciences

To find out which professor of anthropology has been elected to the prestigious organization that has served the nation since 1863, turn to page 12.



Gentler test for heart disease

Scientists have built a model that could help them more quickly test for heart disease. For more information, see page 15.

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DIVERSITY

Sociology faculty and students make MOST of national program

By NANCY A. WILLIAMS
Public Information

The Department of Sociology is part of a national program to change how graduate and undergraduate students prepare for careers in the social sciences. The Minority Opportunities through School Transformation (MOST) Program, sponsored by the American Sociological Association and funded by the Ford Foundation, has finished the first year of a five-year agenda.

"MOST is designed to help the department transform its curriculum, faculty and student body to better reflect the changing demographics of today's society," Barrett A. Lee, professor of sociology and program co-director, said in a report May 10 to the University Board of Trustees.

"As sociologists we are called upon to interpret and understand human behavior," he said. "If we are to succeed at this task, people from different cultures and backgrounds must be represented in the discipline. This is especially true given the demographic shifts under way."

By the year 2050, Hispanic Americans will make up

24.5 percent of the population, up from the current 10.2 percent. Asian Americans will make up 8.2 percent and African Americans will constitute 13.6 percent of the population.

The MOST Summer Institute, which is an integral part of the undergraduate program, last summer gave 17 undergraduates from across the country intensive training in research.

"We emphasized skill enhancement — how to think critically, formulate a research problem, select appropriate methodological tools, use computers and statistical software, interpret results and write well," Lee said.

Recruiting students into graduate study in sociology is another focus of the MOST Program.

"This is an investment in the future and we are staying ahead of the curve," Lee said. "These minority scholars will contribute to the growth of the discipline and to our department being known as a place conducive to their intellectual development and professional success."

Salvador Oropesa, assistant professor of sociology, is also a program co-director.

Information fair set for June 9 in Philadelphia

The Penn State College Information Fair in Philadelphia will be held from noon to 4 p.m. on Sunday, June 9, at the Adam's Mark Hotel. More than 23,000 high school sophomores and juniors have been invited to attend along with parents and high school guidance counselors.

This event is designed to give students and their families pertinent information about college in general and Penn State specifically. There will be presentations on academics, campus life, student aid, admissions requirements and a variety of other services. Penn State faculty, staff and students will be on hand to answer questions.

For more information contact Joyce Matthews at (814) 863-8710.

News in Brief

Married couples needed for diary study

The Department of Psychology is looking for legally married couples of all ages and backgrounds from Centre County to participate in a study on daily experiences and marital relationships. Couples who are willing to volunteer their time will be asked to complete daily diaries on their marital relationship and activities. Couples will receive \$30 cash and Penn State merchandise for their participation.

For more information, please call Jean-Philippe Laurenceau, Department of Psychology, at (814) 863-1720 and leave a message. The principal investigator on this study is Lisa Feldman.

HRDC course

The following course is being offered by the Human Resource Development Center. To register for the course, call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

To see a list and description of other courses available, log-in to the [Intercom](http://www.ur.psu.edu) Web site from the home page of the Office of University Relations at URL <http://www.ur.psu.edu>

Relaxation and Self-Renewal Workshop (PER 018)

Designed for those who wish to increase their productivity both at work and at home while enjoying a relaxed and rewarding lifestyle. Participants will complete a daily stress log before attending class. This program meets for two sessions: 8:30-11:30 a.m. Tuesday, June 11; and June 18, in 319 Rider Building. Cost: \$55.

25-year Awards



Martin Chesin



Anabeth Dollins



Linda Fordian



Robert Hauser



Helen C. DeFurio



Joseph M. Lambert



James S. Ultman



Linda Ellenberger



Paul S. Wayne



Eugene Waite

Observing 25 years of service at the University are, top row, from left, Martin Chesin, assistant professor of English; Anabeth Dollins, instructor in mathematics; Linda Fordian, staff assistant in the Student Affairs Office; and Robert Hauser, assistant professor of history, all at the Penn State McKeesport Campus.

Second row, from left, Helen C. DeFurio, administrative assistant, Department of Computer Science and Engineering; Joseph M. Lambert, head, Department of Computer Science and Engineering; and James S. Ultman, professor of chemical engineering, all in the College of Engineering; and Linda Ellenberger, staff assistant VI, University Testing Services, Undergraduate Education.

Bottom row, from left, Paul S. Wayne, maintenance mechanic, Penn State Altoona Campus; and Eugene Waite, groundskeeper, Landscape A, in the Office of Physical Plant.

LECTURES

Geophysicist to discuss study on global warming

Walter Munk, a geophysicist who is currently leading a unique oceanographic experiment to study global warming, will give a lecture titled "Climate, Whales and Sound: How Are They Related?" at 11 a.m. in 101 Osmond Laboratory on the University Park Campus on May 24.

Munk is a member of the National Academy of Sciences, the American Academy of Arts and Sciences and a foreign member of the Royal Society.

He has received many honors,



Walter Munk

including the Arthur L. Day Medal of the American Geological Society, the Sverdrup Gold Medal of the American Meteorological Society, the Gold Medal of the Royal Astronomical Society, the Agassiz Medal of the National Academy of Sciences and the National Medal of Science.

To schedule a meeting with Munk during his visit to Penn State, call 800-778-8632 to register or e-mail to moseschan@atm@psvm.psu.edu.

Workshops to give parents sports nutrition guidelines

Parents of young athletes can get their child's diet in shape by attending "Sports Nutrition for Young Athletes — A Guide for Parents" on Thursday, June 20 or 27 at The Penn State Scanticon.

Kristine Clark, director of sports nutrition at Penn State and nutritionist for the United States men's and women's field hockey teams, will outline proper sports nutrition for young athletes. At Penn State, Clark provides nutrition counseling for more than 1,300 varsity athletes from 29 sports teams. She also was the nutritionist for the United States World

Cup Soccer Team during the summer of 1994.

Half-day workshops will be held in the morning both June 20 and 27. The workshops begin with registration at 8:30 a.m., followed by the session from 9 a.m. until noon.

The \$65 fee includes materials and a refreshment break. If more than two people register from the same household, the first registration is \$65 and subsequent registrations are \$35 each. A student may register for \$25.

Call 800-778-8632 to register or for more information.

Mushroom conference June 9-12

As many as 250 people will converge on the University Park Campus in June for an event sure to spawn interest among those who produce, study or are otherwise involved with mushrooms.

The Second International Conference on Mushroom Biology and Mushroom Products will be held June 9-12 at the Nittany Lion Inn. The conference will feature presentations by more than 60 of the world's top mushroom scientists from 21 countries, including several from Penn State's College of Agricultural Science.

As the leading mushroom research institution in the United States, Penn State has just marked 70 years of mushroom research.

A wide range of mushroom topics and varieties will be discussed. Among those scheduled to speak is Pennsylvania Secretary of Agriculture Charles Brosius, who is also a mushroom producer. Brosius will address challenges and opportunities facing the mushroom industry.

To learn more about the conference, call the Office of Conferences and Short Courses at (814) 865-8301.

Explore "Career Paths Less Traveled"

"Career Paths Less Traveled," the 1996 national meeting of Graduate Women in Science, will be held at University Park from June 13 through 15. June 15 will be a day of panels and speakers and will be open to Penn State faculty, staff and graduate students who are prospective members. GWIS membership requires a bachelor's degree in a

science field and at least one year of involvement in research.

Joan Brenchley, professor of microbiology and biotechnology, will speak at the June 15 banquet. For more information about GWIS, the meeting or to make banquet reservations, contact Carol Hoda at (914) 865-7679 or by e-mail at ch4@cdc.psu.edu.

Three to be given honorary alumni status

Three outstanding contributors to the University — G. David Gearhart, Evan G. Pattishall Jr. and P.C. "Hoop" Roche — will be given Honorary Alumni Awards by the Penn State Alumni Association during the All-Class Luncheon on Saturday, June 1.

Gearhart served as senior vice president for Development and University Relations from 1985 to 1995. During that time, he was responsible for public relations, alumni relations and fund-raising for the University.

He directed The Campaign for Penn State, a successful six-year effort that raised \$352 million for endowment, academic program support, facilities and equipment. During his tenure, annual giving to Penn State increased threefold and the University's endowment nearly sixfold.

He is now senior vice president and managing director of Grenzebach Glier & Associates Inc., in Chicago, Ill., a nationally prominent philanthropic management consulting firm with current client fund-raising goals totaling in excess of \$6 billion.

He holds an Ed.D. in higher education administration and a J.D. from the University of Arkansas and was a 1992 Fulbright Fellow at the Merion College of Oxford University, in England.

Pattishall, professor emeritus of behavioral science and health and human development, served as a physician, professor and first head of the Department of Behavioral Science in the College of Medicine from 1966 to 1979. He also was interim dean and then dean of the former College of Human Development from 1979 until his retirement in 1987.

Now a resident of St. Petersburg, Fla., he is a member of the Academy of Senior Professionals at local Eckerd

College, where he participates in the Intergenerational Teaching Program and counsels pre-medicine students. He established an endowment for undergraduate research in biobehavioral health for Penn State in 1995 and endowed the Evan G. and Helen G. Pattishall Outstanding Research Achievement Award in 1987.

He holds degrees in music education and educational psychology from the University of Michigan, which named him a distinguished alumnus in 1992, and an M.D. from Case Western Reserve University in Ohio.

Roche, is president and chief executive officer of Erie Plastics, of Corry, Pa., and one of the major supporters of the plastics program and Plastics Technology Center at Penn State Erie, The Behrend College. A co-chairman of the industrial advisory board to the center, he has led several fund-raising efforts to create the endowment that made the baccalaureate degree plastics program possible, as well as the expansion of the center.

He currently serves as chair of the Penn State-Behrend Council of Fellows, the college's advisory board for development and strategic planning, and has been a council member since 1982. He was a delegate to the 1995 White House Conference on Small Business and was named the 1993 Society of Plastics Engineers Man of the Year.

He holds a degree in business administration from the University of Notre Dame and an MBA from American University.

Honorary Alumni Awards are granted by the Alumni Association to people who are not graduates of Penn State "but have made significant contributions toward its welfare, reputation or prestige."

Faculty/Staff Alerts

Children's Miracle Network broadcast

The Children's Miracle Network annual broadcast, which over the years has raised more than \$8.9 million for Penn State University Children's Hospital at The Hershey Medical Center, will be aired June 1 and 2. Check local television listings for station and times.

Countless volunteers from central Pennsylvania — hospital employees, local business, community organizations and area residents — have worked year-round for the Children's Miracle Network. Viewers can help by phoning in a pledge. All local proceeds benefit pediatric services at Penn State University Children's Hospital, which specializes in treating children suffering from all afflictions, including cancer, birth defects, acci-

dents and heart and muscular diseases.

"The Ice Cream Story" to air on PBS nationwide

Public television viewers can see why Penn State is famous for having the premiere ice cream program in the country May 29 at 8 p.m. when the documentary "The Ice Cream Story" debuts on PBS stations nationwide.

The hour-long film is written, produced and narrated by Rick Sedick, a producer at WQED, Pittsburgh's public television station. About 10 minutes of the program details Penn State's ice cream legacy, then goes on to explore ice cream making from the Jersey shore to the beaches of Hawaii. Check your local listing for stations in your area.

From the Trustees Docket

Seven re-elected to three-year terms on board

Penn State alumni and delegates of agricultural and industrial societies re-elected seven incumbents to serve on the Board of Trustees in elections held Tuesday, May 9, at the University Park Campus. All will serve a three-year term beginning July 1.

Re-elected by the Penn State alumni were:

■ **H. Jesse Arnette**, 1955 graduate, senior partner of Arnette, Hastie, McGee, Willis and Greene, a 35-lawyer corporate firm based in San Francisco.

■ **Mary G. Beahm**, 1981 and 1987 graduate, senior international human resources representative for Westinghouse Electric Corp., Pittsburgh, Pa.

■ **Joel N. Myers**, 1961, 1963 and 1971 graduate, founder, president and chairman of the board of AccuWeather Inc., State College, Pa.

Re-elected by the agricultural society delegates were:

■ **Gordon L. Hiller**, master of the Pennsylvania State Grange.

■ **David A. Morrow**, owner-manager of Arch Spring Farm, Tyrone, Pa.

Re-elected by the industrial society delegates were:

■ **William A. Schreyer**, chairman emeritus of Merrill Lynch & Co. Inc.

■ **William L. Weiss**, chairman emeritus of Ameritech Corp.

H. Jesse Arnette is president of the Board of Trustees. He is a director of Wells Fargo Bank, WMX Technologies, FPL Group Inc., Textron Inc., Eastman Chemical, Armstrong World Industries and Union Pacific Resources Inc.

As a Penn State undergraduate, he majored in political science, was elected University student body president and was invited into Lion's Paw. A life member of the Alumni Association and member of the President's Club, Arnette also is a founding member of the Renaissance Fund, which has provided hundreds of scholar-

ships for Penn State students since 1969. He was first elected to the board in 1969 and elected vice president in 1993 and re-elected in 1994 and 1995. He was elected president in 1996.

Mary G. Beahm currently serves as the chairperson of the Committee on Campus Environment for the board. She has served on the board's Executive Committee, as vice chairperson of the Special Advisory Committee on Diversity, and as a member of the Educational Policy and Physical Plant Committees. She served as Trustee Liaison to the Alumni Council and the Executive Board of the Alumni Association.

She received her bachelor's degree from the College of Health and Human Development and a master's degree in business administration, both from Penn State. Beahm works with the INROADS minority job placement program and has tutored underprivileged children. She was first elected to the board in 1990.

Joel N. Myers has served on three trustee committees, including the Executive Committee and is vice chairperson of the Educational Policy Committee. He has navigated AccuWeather from a small group of Penn State graduates to the nation's largest commercial weather service. He served on the Penn State faculty from 1964 to 1981.

He was first elected to the board in 1981.

Gordon L. Hiller was named Granger of the Year in 1991, and has received numerous meritorious awards from the Pennsylvania Department of Agriculture, Pennsylvania Department of Environmental Resources and the County Conservation District. He served as chairman of the DER Agricultural Advisory Committee.

He previously has served as regional director for the Pennsylvania Department of Agriculture, field representative for the State Conservation Commission and as a program specialist in the Bureau of Soil and Water Conservation. He was owner/operator of Margor Manor, a 150-acre dairy farm, and an instructor at the Williamsport Technical Institute Vocational Training Farm.

Hiller was first elected to the board in 1993.

David A. Morrow is a consulting veterinarian and formerly a professor of large animal clinical sciences at Michigan State University. At Penn State, Morrow is past president of the Penn State Alumni Association, a member of its executive board; judge and dedicatee of the Dairyman's Club and Dairy Exposition; honorary Lion Ambassador; board member of the Penn State Club of Centre County; and Distinguished Alumnus of the Dairy and Animal Science Department in 1992.

He was first elected to the board in 1987.

William Schreyer, as chairman of the board at Merrill Lynch, led the company to become the world's largest and most profitable securities underwriter with total client assets growing to more than \$500 billion.

Joining Merrill Lynch upon graduation from Penn State in 1948, he rose through a succession of sales, trading, investment banking and management positions to become president in 1982, chief executive officer in 1984 and chairman from 1985 to 1993.

At Penn State, Schreyer has been honored as a Distinguished Alumnus and an Alumni Fellow. He served as national chairman of The Campaign for Penn State, raising \$352 million for academic programs, and chairman of the National Development Council, the University's top voluntary fund-

raising organization. He also is a member of the Mary Jean and Frank P. Smeal College of Business Administration Board of Visitors.

A lifelong supporter of education, he and his wife, Joan, established the William A. Schreyer Chair in Global Management Policies and Planning in the Smeal College; created the William A. Schreyer Libraries Endowment in Global Management Policies and Planning; established a \$1 million Faculty/Staff Challenge Grant for The Campaign for the Libraries; and contributed to the Chair in Jewish Studies at Penn State.

He was named to the board in 1986 by former Pennsylvania Gov. Dick Thornburgh and elected by the industrial society delegates in 1990 and 1993; and was voted chairman of the board in 1993, 1994 and 1995, having served as vice chairman in 1991 and 1992.

William L. Weiss is chairman emeritus of Ameritech Corp., a leader in providing full-service telecommunications and advanced information services to 12 million customers in the Midwest.

He is a director of Abbott Laboratories Inc., Merrill Lynch, Quaker Oats Company and Tenneco Inc. He is chairman of the Governance Board of the Central Air Circulator, which oversees the development and construction of the proposed downtown Chicago transit system. He is a trustee of several institutions including Northwestern University and the Chicago Symphony Orchestra.

At Penn State, Weiss was named an Outstanding Engineering Alumnus in 1985 and a Distinguished Alumnus in 1986. He also has received an honorary doctor of management degree from Purdue University and honorary doctor of laws degrees from DePaul University and Knox College.

He was appointed to the board in 1994 to fill an unexpired term as a representative of industrial societies.

Trustees approve lease to build senior center/office building

A lease to the Rhodes Development Group for developing land on Cherry Drive, Derry Township, Dauphin County, in order to construct a combined senior citizens center and medical office building, was approved by the Board of Trustees May 10.

In addition to the Derry Township Senior Citizens Center, several services provided by The Milton S. Hershey Medical Center will also occupy the proposed facility on land bordered by Route 322, Cherry Drive, Sand Hill Road and Forest Avenue. The medical center's services will include a women's health center, clinical sites for

internal medicine and pediatrics, and a medical resource center to provide patient and community education.

The new facility will enable the medical center to expand its offering of primary care services in the immediate Hershey area. The medical center's clinical sites for internal medicine and pediatrics, now located in the Penn State Community Health Center on Fishburn Road, Derry Township, will relocate to the new center on Cherry Drive. This move will then allow the clinical site for family and community medicine on Fishburn Road to expand.

John H. Rhodes, president of the Rhodes Development Group, plans to lease up to seven-and-a-half acres of land for construction of the new facility. Rhodes would then separately lease to Penn State and the senior center their respective portions of the building. The senior center's community room would also be available to the medical center for holding evening lectures and workshops for the community. The arrangement is similar to a lease agreement Rhodes has with the Centre Medical Sciences Building, adjacent to Centre Community Hospital in State College.

At the end of a 29-year lease period, the structure and other improvements would revert to the University at market price. In the event the University acquires the building from the Rhodes corporation, the senior center's lease would continue with the University as landlord. The agreement also includes requirements for approval of the building plans by the University and restrictions on the use of the proposed facilities.

The group has not yet detailed its financing. Considering the new facility but has mentioned the possibility of a capital campaign.

From the Trustees Docket

Committee gets 18 proposals to develop retirement center

Planning for a University-related retirement community is moving into a higher gear, now that the committee working on the project has received 18 proposals from firms interested in developing and operating such a facility.

The committee hopes to narrow the list to five to eight firms this month, William H. McKinnon, senior associate vice president for finance and business, told the Board of Trustees May 10. McKinnon is the chair of the six-member committee that developed the request for proposals on the project.

Through the process, Penn State is seeking an outside operator to market, design, finance, build and operate a retirement community — which has the working title of "Village at Penn State" — possibly on University-owned land.

As it is currently envisioned, the University-affiliated community would consist of a retirement village for recent retirees as well as a continuing care retirement community for older retirees. Both parts of the community would be able to use the University's unique programs, services and facilities for the benefit of the community's residents as well as the University and its students (see *Intercom*, Jan. 11).

For instance, it would probably involve:

- The Hershey Medical Center, in providing medical care to the community;

- The College of Health and Human Development, in doing research at and providing service to the community; and

- The Penn State Alumni Association, in promoting and marketing the facility, especially to Penn State alumni, faculty and staff.

In addition, a retirement community affiliated with Penn State would be able to provide internships and work opportunities to Penn State students in health planning and administration, recreation and leisure activities, hotel and restaurant management, human development and family studies, nursing, nutrition and other related disciplines. It could also be tied into Penn State classes, athletics and cultural events.

Penn State would not develop, own or operate the facility. However, the University could get involved with such a facility in many productive and creative ways, according to University President **Graham B. Spanier**.

"We think this project could have great benefits for our academic programs. For instance, the College of Medicine could lend its expertise in primary care and some of its specialty interests," Spanier said.

"We have a school of nursing that is based here with very strong interests in geriatric care. We have programs in health planning and administration, recreation and leisure activities, hotel and restaurant management, and human development and family studies. And we have an interdisciplinary gerontology program and a gerontology center," he said.

Spanier cited the "vast wealth of untapped expertise" among retiring Penn State alumni who "might want to teach a course occasionally, advise students, serve in something like a 'grandparent' role in our pre-school or daycare facilities, or be docents in the Palmer Museum of Art."

The committee hopes to make a final recommendation to Spanier during the summer. Groundbreaking for the facility, assuming the project gets a final go-ahead, is at least two years away. The committee's criteria for evaluating its 18 proposals include:

- experience in developing, marketing and managing continuing care retirement communities;
- conformance to the requirements in the request for proposals;

- the ability to provide risk capital; and
- the experience of team members involved.

Penn State is exploring an affiliation with a retirement community because it believes the State College area is highly attractive to retirees with Penn State ties and that the University's involvement will help ensure the success of such a community. Currently, there are about 1,000 such facilities across the country, with about 45 of them located near Philadelphia.

Erie's living learning center gets a name

The new living learning center at Penn State Erie, The Behrend College, has been named **Almy Hall**. The five-story, lodge-style residence hall/study facility, under design by Robert H. Hoffman Associates of Boalsburg, is being constructed to more fully the academic experience of students with their daily lives.

The center was named in honor of sailing master Thomas C. Almy, commander of the Schooner Sommers during the War of 1812. The action is in keeping with the theme of naming residence halls at the campus for people and ships that took part in the Battle of Lake Erie.

Expected to be completed next year, the 32,500-square-foot Almy Hall will have 133 beds and a total project budget of \$4.4 million. Approximately 80 percent of the living space will be devoted to honors students in the University Scholars Program with the remainder open to all students.

Up-to-date computer facilities are planned for the hall, as well as an apartment for visiting scholars and several commons areas. The building will bring the total on-campus residence capacity to about 1,250.

Take note

It's time to update information for telephone books

The Department of University Publications is beginning to update information for the general information and University department listings of the Penn State student and faculty/staff telephone books. This year, the schedule has been adjusted to allow more time for changes to be included in the books. Please note that the traditional June 6 deadline (for most material to be submitted) has been extended to July 16.

Faculty and staff in all University locations are asked to help make the updating as efficient as possible by photocopying the page(s) that pertain(s) to their areas, marking changes and sending updates to the Department of University Publications, Directories, Suite A, University Support Building I, University Park Campus, by July 16.

The department listings on pages 25 through 87 in the Faculty/Staff Directory are identical to those in the Student Directory, although the page numbers are slightly different. Please submit only one update of material if it is between pages 25

and 87 in the faculty/staff book. That update will be used for both books.

If changes to your area are extensive, please type them on a separate sheet and attach it to the photocopy of your present listing.

Changes for individual listings (pages 89 through 170) in the Faculty/Staff Directory for full-time employees should be handled through your human resources representative. The IBIS function UADR (update address information) is the only method of correcting or changing an employee's address and/or telephone information that will ensure the information will appear correctly in the Faculty/Staff Directory. All Human Resources representatives have been given access to the UADR function. **Do not send corrections for individual listings to the Department of University Publications.**

If you are a part-time employee who works in an area connected with Penn State but are not on Penn State's payroll, or a faculty member emeritus

and you want to be listed in the 1996-97 Faculty/Staff Directory, please submit a Department of University Publications telephone directory information form by July 16 to Publications at the above address. The human resources representative who works with your area can help you get a form or you can get one from Publications by calling (814) 863-1870. Please remember that you must submit a form each year if you want to be listed in the coming year's Faculty/Staff Directory.

If you have any questions about sending your area's update or about the use of the telephone information form, call Publications at (814) 863-1870. If you have questions about your individual listing, call your human resources representative.

Department listings are now available on a Web site in an experimental stage. More information about using that method to update department listings only — not individual listings — will be available in the near future.

Appointments

Harrisburg moves forward with realignment effort

An award-winning professor and researcher is Penn State Harrisburg's first associate dean for undergraduate studies.

Michael J. Cardamone, director of academic affairs at Penn State Schuylkill since 1990, begins his duties in the recently created position July 1.

A faculty member at the Schuylkill Campus since 1972, Cardamone served in various positions for 26 years at the Schuylkill Campus.

Cardamone's appointment comes on the heels of the recently proposed Penn State Harrisburg—Penn State Schuylkill merger. As an outcome of the University's Commonwealth Educational System realignment effort, the Schuylkill Campus voted to pursue its option of becoming a part of Penn State Harrisburg, which will create a two-campus Capital College.

Cardamone earned his bachelor's degree in physics with honors from the University of Scranton and his master's degree and doctorate in the same discipline from Penn State. His area of specialization is laser light scattering. He served as a postdoctoral fellow at the University of Guelph, Ontario, where he received "outstanding new teacher" recognition.

He has earned two National Science Foundation research grants and seven Penn State Faculty Scholarship Support Grants. He received the Penn State Schuylkill Research Award in 1989, its Teaching Award in 1984 and Faculty Service Award in 1981.

As director of academic affairs and academic budget administrator, Cardamone chaired the Strategic Planning and Budget Task Force, initiated faculty workload guidelines, standardized the faculty performance evaluation process, represented the Commonwealth Campus system on a University-wide registration task force and was a mentor in the women's administrative intern/mentorship program.

New director appointed for Environmental Health and Safety

Maurine Claver has been appointed director of the Division of Environmental Health and Safety. She joined Penn State in 1979 as an industrial hygienist and was promoted through the ranks to serve as associate director in 1994. She replaces H.O. Triebold Jr., who retired in March.

As director, Claver is responsible for the administration of Penn State's environmental health and occupational health and safety programs, including asbestos control, compliance with right-to-know legislation, hazardous and infectious waste disposal, laboratory safety, chemical safety, ergonomics, environmental regulations, PCB control and industrial hygiene.

She also administers the state-certified Penn State Hazardous Materials Response Team, which is responsible for providing emergency control of hazardous material releases throughout Centre County.



Michael J. Cardamone

As part of these programs, Claver evaluates University facilities practices and develops comprehensive industrial hygiene programs, and conducts industrial hygiene evaluations for biological and chemical contaminants and physical hazards. She also oversees a laboratory safety program for facilities using chemical carcinogens, biohazardous materials and recombinant DNA molecules, as well as training programs on related topics such as food sanitation and chemical handling.

A summa cum laude graduate in environmental health from the University of Massachusetts, she received a master's degree in public health from the University of North Carolina at Chapel Hill.

Before coming to Penn State, Claver was an occupational health and safety officer at the University of North Carolina and a health officer in the Office of Research Safety at the National Cancer Institute.

Long-time Harrisburg faculty member named Berg Professor

Long-time Penn State Harrisburg faculty member Charles A. Cole has been named the Quentin Berg professor in engineering and technology.

Cole, associate director of the School of Science, Engineering and Technology and chair of environmental programs at Penn State Harrisburg, is a registered engineer whose research interests include solid waste management, recycling and resource recovery. He has been a member of the faculty since 1971, serves on several state commissions and has been a Fulbright lecturer and an Environmental Protection Agency Fellow.

The Berg professorship provides faculty members with resources for scholarly contributions to teaching, research and public service. It was established in 1988 with a gift from Francis H. Berg of New Cumberland in memory of his husband, a well-known Pennsylvania engineer and industrialist who died in 1973.

Quentin Berg graduated from MIT in 1937 with a degree in mechanical engineering. He was a chief design engineer with AMP Inc. before founding the New Cumberland-based Berg Electronics in 1950, which later became a division of E.I. duPont de Nemours & Co.

Institute for Arts and Humanistic Studies names new director

Robert R. Edwards, professor of English and comparative literature, has been appointed director of the Institute for the Arts and Humanistic Studies, an interdisciplinary research program. The institute's broad mission is to serve as a catalyst for research and creative work in the arts and humanities and to support graduate study in these areas.

Edwards, who was awarded Penn State's Faculty Scholar Medal for Outstanding Achievement in the arts and humanities in 1993, is a Fellow of the Institute for the Arts and Humanistic Studies. Before coming to Penn State in 1989, he taught at the State University of New York-Buffalo, where he was chairman of the Department of English. He also taught at the Université de Bordeaux in Bordeaux, France, 1970-71.

Edwards completed his Ph.D. in comparative literature at the University of California, Riverside as an NDEA Fellow and Woodrow Wilson Dissertation Fellow. He has held research fellowships from the Mellon Foundation and the National Endowment for the Humanities and, in 1985-86, was named a Fel-

low at the National Humanities Center in Research Triangle Park, N.C. In 1991 and 1992, he received an award for outstanding teaching and advising from the English Graduate Student Association at Penn State and in 1995, was elected a visiting Fellow at Clare Hall, University of Cambridge. Since 1992 he has served as editor-in-chief of *Comparative Literature Studies*.

Edwards is the author of several books and served as editor for *Art and Context in Late Medieval English Narrative: Essays in Honor of Robert North Frank Jr.* (1994) and co-editor of *Matrons and Marginal Women in Medieval Society* (1995).

The Institute for the Arts and Humanistic Studies directly supports a cadre of productive senior faculty appointed on a permanent basis and provides short-term support for research and creative projects across the University.

Business faculty member reapointed Fellow for 1996-97

Jane F. Mutchler, professor of accounting in The Smeal College of Business Administration, has been reapointed the Coopers and Lybrand Faculty Fellow for the 1996-97 academic year. Created through a gift from Coopers & Lybrand, one of the "Big Six" accounting firms, the fellowship will provide funds to support Mutchler's research and teaching interests. She is currently pursuing studies in auditor decision making, differences in decisions across auditing firms, surrogate measures for audit risk and the effects of competition on the decisions of auditors.

She chairs the primary field committee overseeing doctoral studies in accounting at Penn State and accounting primary field adviser.

Mutchler has been a faculty member in The Smeal College's Department of Accounting since 1991. Before that, she taught at the University of Arizona from 1982 to 1991, and at The Ohio State University from 1982 to 1990. She holds bachelor's and master's degrees from the University of South Florida and a doctoral degree from the University of Illinois.

Client development team welcomes manager for Pittsburgh/Western Pa.

Ginny A. Newman has been named Continuing and Distance Education client development manager for the Pittsburgh/Western Pennsylvania region. She joins a team of client development managers that includes Kathleen

Jarm in the Philadelphia/Eastern region and Janet L. Wine-miller in the Harrisburg/Central region.

The client development managers help corporations, national associations and government agencies address education, training, and organizational development needs. Their mission involves assisting in the development of partnerships and long-term relationships between the University and external clients, standing appropriate continuing professional education programs and services.

Newman has served as special assistant to the executive vice president and provost since 1994. She joined the University in 1990 as special assistant to the dean of the College of Health and Human Development. Before coming to Penn State, she was executive director of the Bellefonte Family YMCA.

An alumna of Penn State, she earned a bachelor of science degree from the College of Health and Human Development and a master of education degree from the College of Education.



Robert R. Edwards



Ginny A. Newman



Maurine Claver



Facing forest facts

Convincingly outfitted as a sugar maple, Angela Robison (right), a fourth-grader at Port Matilda Elementary School, talks about forestry with Elizabeth Hale (left), a graduate student in ecology, at the dedication of the Laurel Haven Conservation Education Center May 8. Angela acted as a tour guide for visitors at the ceremony opening the 50-acre School of Forest Resources facility located off Beaver Road near Julian. The site is dedicated to the use of natural resource conservation through sustainable forestry practices. The center and land were donated by two former faculty members in the College of Education: Jane Madsen and her late husband, Harold Mitzel.

Promotions

Staff

Robert J. Anderson, supervisor, Engineering Shop Services, in Applied Research Lab.

Patricia L. Bertoni, staff assistant VII at The Hershey Medical Center.

Barbara J. Blatt, Surgical Research Programs assistant at The Hershey Medical Center.

Kathleen E. Bock, supervisor, Record Storage and Retrieval, at The Hershey Medical Center.

Debbie K. Bradley, assistant manager, Food Services, Housing and Food Services.

Maurine G. Claver, director, Environmental Health and Safety, in University Safety.

Linda S. Conrad, administrative assistant II at Penn State Harrisburg.

Joann M. Dornich, program specialist in Housing and Food Services.

Melissa B. Duttry, coordinator, Student Services, at the Penn State Dubois Campus.

Jeremy J. Fegley, staff assistant VI at The Hershey Medical Center.

George J. Field, manager, Manufacturing Systems Laboratory, in the College of Engineering.

Brenda L. Firestone, laboratory supervisor at Penn State Harrisburg.

Mary T. Franks, coordinator, ADA programs, in Office of the President.

Kathryn C. Itinger, administrative assistant III in Research and Graduate School.

Sandra G. Jackson, assistant director, Support Services, at The Hershey Medical Center.

Linda L. Jennings, staff assistant VI at Penn State Fayette Campus.

Bonnie C. Koch, staff assistant VIII at The Hershey Medical Center.

Jeanne M. Korman, staff assistant V in College of Health and Human Development.

John A. Krumrine, associate director II in Division of Development and Alumni Relations.

Barbara L. Latz, contracts and proposal specialist at The Hershey Medical Center.

John S. Lee, computer and technical specialist at Penn State Harrisburg.

Susan E. Leitzelt, associate director for contracts in Research and Graduate School.

Edward F. Linder, director of business and student support at the Penn State Allentown Campus.

Paul E. Moser, facilities manager in College of Engineering.

Margaret E. Norton, transplantation coordinator at The Hershey Medical Center.

Jason S. Oakman, supervisor, graphic services, in Housing and Food Services.

John J. Patterson, administrative computer systems specialist in Division of Development and Alumni Relations.

David A. Reed, lead applications programmer/analyst in Computer and Information Systems, Office of Administrative Systems.

Pamela J. Reifinger, staff assistant VII at The Hershey Medical Center.

Kenneth L. Rudolph, technical analyst III at The Hershey Medical Center.

Richard L. Schraf, designer, electro/mechanical, in Applied Research Lab.

Elinor V. Serotnik, publications editor/designer in College of Agricultural Sciences.

Margaret A. Shand, supervisor, clinical research, at The Hershey Medical Center.

Charles F. Smithmyer, senior communications analyst in Computer and Information Systems, Telecommunications.

Eric M. Snyder, business analyst I at The Hershey Medical Center.

Patricia E. Styer, technical analyst I at The Hershey Medical Center.

Tanja L. Stykes, business analyst I at The Hershey Medical Center.

Michelle L. Thorwar, research support technician III in College of Health and Human Development.

Joyce A. Vroman, staff assistant VI in Public Relations.

John R. Walker, business analyst I at The Hershey Medical Center.

Shariene Washington, senior technician, research, at The Hershey Medical Center.



Green computing

A recent survey conducted on behalf of the Campus Energy Committee found that in a single University Park building 332 computers, 132 printers and 30 copy machines were left running unattended all night. The cost of not turning off equipment in this single building averages \$7,300 a year. Not only does this wear out expensive equipment, it needlessly increases the University Park electricity bill. The March electric bill for University Park was \$724,000.

The Penn State community can help by practicing "Green Computing." This means turning equipment off whenever possible, either by buying EPA-rated "Energy Star" computers which automatically reduce power when not in use or by hitting the "off" switch.

There are valid reasons for keeping your central processing unit (c.p.u.) running if it is a server or a fax, but unattended monitors needlessly waste electricity.

The cost of running a computer monitor on the University Park Campus is about 1 cent an hour. If the 50,000 members of the University Park community could each reduce our electric bill by 1 cent a day, we could cut our operating expenses by \$500 a day.

Best screen saver

Have you ever noticed how old TV sets look fuzzy compared to new ones? That's because the picture tube has a finite life span.

Nobody ever buys a new TV, plugs it in and never turns it off, yet some people do this with their office computer. Overheating will slowly degrade the electronic components and cause a loss of screen resolution. Even if you keep your c.p.u. on most of the time, it is a good idea to turn the monitor off when it's unattended.

Screen savers help prevent phosphor burn-in but do very little to reduce overheating and energy usage. Newer "Energy Star" computers have a sleep mode which will both save energy and extend the life of the computer. "Energy Star" computers, monitors and printers automatically "power down" when not in use.

If you have an older computer without "Energy Star" features you can still save your screen and save energy at the same time. Just use the best screen saver ever invented — the "off" switch.

This column was provided by P.D. Ruskin from the Office of Physical Plant.

A Presidential Visit

Clinton gives 1996 graduates special s

As the second visit by a U.S. president to the University Park Campus in less than four years, Bill Clinton's appearance May 10 as speaker for commencement activities for The Graduate School was punctuated by excitement and a flurry of activity during his six-hour stopover here.

In the first of at least three commencement addresses he will make this graduation season, President Clinton challenged the more than 12,000 people in attendance—a little more than 500 of them Ph.D and master's degree candidates—to help solve America's problems. It is only the second time in the 141-year history of the University that a standing U.S. president has given the commencement address. The first was Dwight D. Eisenhower in 1955.



Welcome: State College Borough Mayor Bill Welch greets President Clinton at the airport
Photo: Vince Mannino

In his 45-minute address, Clinton urged graduates to give something back to their communities, and outlined a series of incentives designed to encourage more community service by high school and college students. The president also told graduates that the decision to continue their education was itself "an act of responsibility."

"We need more people—many, many more people—with much higher levels of education and, even more importantly, with the ability to learn for a lifetime," he said. "We need this kind of personal responsibility from all of our citizens."

"We should make service to the community ... a part of the lives of every dedicated citizen in the United States."

Throughout his address, President Clinton highlighted his administration's accomplishments and pointed to his future plans for creating a caring nation, extolling the virtues of citizenship and volunteerism along the way.

Clinton concluded his address by again urging graduates to use their talents and educations to rebuild their communities.

Anyone who missed President Clinton's address or who would like the full text of his speech, can view it or download it from the World Wide Web on the home page of the Office of University Relations at URL <http://www.ur.psu.edu/>. Clinton's address to graduates is also available on VHS tape from Penn State Media Sales for \$29.95 plus tax. The price includes shipping. To order a copy, call 1-800-770-2111.

A message from **Graham B. SPANIER**

President Clinton's recent visit to Penn State was a tremendous success. It brought international attention to the University, helped strengthen contacts and relationships in the nation's capital and made the Graduate School commencement one that the graduates will remember for a lifetime. This never would have occurred were it not for the professionalism and tireless efforts of so many Penn State employees.

We often speak of the extraordinary caliber of people we

have within our University, but it was never more evident than during the president's visit. Our people in physical plant, telecommunications, public safety, university relations, the graduate school, the Jordan Center and so many other departments across the campus all performed with great skill on very short notice to make President Clinton's visit the success it was.

Everyone associated with the event should feel great pride in their accomplishment. I offer to each of them congratulations and thanks for a job well-done.



Talking about the future: President Clinton speaks to a Penn State audience during the first of three speeches.



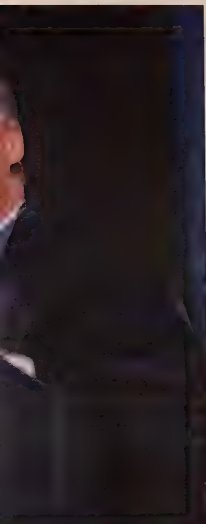
First family: The Spanier family, Brian, Sandra and Graham, make quick introductions at the airport before traveling on to the Jordan Center for commencement activities.



Mmmm, mmmm, good: University President Spanier and the University Creamery staff, where the nation's leader goes for a treat.

Photo: Vince Mannino

Off at May 10 commencement



...ses he will give this commencement season.
Photo: Scott Johnson



President Clinton enjoy a quick stop at the
Cherry Quist and Peachy Paterno ice cream.
Photo: Scott Johnson



On deck: Clinton waits before he's introduced at the Graduate School Commencement.

Photo: Scott Johnson



Photo: Greg Greco

Congratulations: Shaking the hand of a glad grad (above), Clinton wishes him well as he did all of the 500-plus graduates that day.

On time: After landing (below) at the University Park Airport at 1:16 p.m. Friday, May 10, Clinton is greeted by clearer skies than when the day began. He left State College at 6:59 p.m.

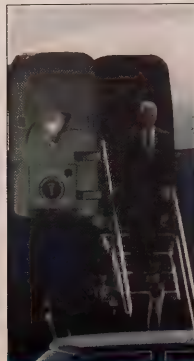
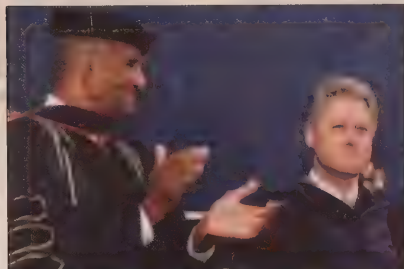


Photo: Andrea Hurley



Lost in the sea of graduates: This graduate student (above) searches for her family among the more than 12,000 visitors that came to the Jordan Center to hear the president speak.

Photo: Greg Greco



Statesman and scholar: Jesse Amelle, Board of Trustees chairman, applauds as Clinton is lauded before receiving the University Scholars Medal. President Clinton is only the third person who is not a University scholar to be given the medal.

Photo: Scott Johnson



Media field day: Hundreds of reporters from print, radio and television descended on the Jordan Center to cover the presidential visit.

Photo: Greg Greco

The ARTS

AT PENN STATE



Music at Penn's Woods

Conductor Pu-Qi Jiang will conduct the 11th annual Penn's Woods Orchestra and Chamber Music Festival, which runs from June 22 to July 13.

"The Beeples"

Pennsylvania Centre Stage, the summer professional theatre at Penn State, opened its 1996 season with "The Beeples," an adventurous play especially for children ages 5 and older, which continues through May 25 in the Pavilion Theatre on the University Park Campus. Pennsylvania Centre Stage is a program in Penn State's College of Arts and Architecture.

Department of Theatre Arts faculty member Helen Manfull, who first directed "The Beeples" in 1973, is again directing.

Pennsylvania Centre Stage will offer five shows of "The Beeples": 7 p.m. Thursday, May 23; 7 p.m. Friday, May 24; and 10 a.m., 4 p.m. and 7 p.m. Saturday, May 25.

For tickets or information, phone the Arts Ticket Center at (814) 863-0255; toll-free (800) ARTS-TDX.

Exhibition

An exhibition of watercolors, graphite drawings and pastels by Sophie Richmond will be on display in Pattee Library's East Corridor Gallery from June 1 through 30.

Richmond received a bachelor of science degree in drawing and printmaking from Portland State University in 1984, and a bachelor of fine arts degree in ceramics from the University of Oregon in 1986. She later moved to Pennsylvania and began teaching art at the Hetzel Union Building's Art Center, the Cambria County Community Arts Center and in several community school programs in Johnstown.

Pattee exhibit

An exhibition of current work by Jeff Edmunds will be on display in Pattee Library's Lending Service Gallery from June 1 through 30.

Edmunds majored in art in college and spent his senior year in France painting and learning French.

This exhibition includes works completed within the past two-and-a-half years.

Bruce Hornsby in Williamsport

Adult contemporary rocker Bruce Hornsby will bring his song stylings to the Community Arts Center in Williamsport, part of the Pennsylvania College of Technology, at 8 p.m. Wednesday, June 5.

Hornsby jumped into the music scene in 1986 with his band The Range and a debut album that included the No. 1 hit "That's Just the Way It Is." That success was followed by his second No. 1 hit, "The Valley Road." Tickets for the concert are between \$19.50 and \$35 and can be obtained by calling the center's box office at (717) 326-2424.

Penn's Woods

With just over a month until the opening night of the 11th Annual Penn's Woods Orchestra and Chamber Music Festival, top musicians from around the world are preparing to descend on University Park to participate. Led by Pu-Qi Jiang, director of the Penn State Philharmonic Orchestra, Music at Penn's Woods unites 65 orchestral musicians — representing more than 50 dif-

University Park Calendar May 23 to June 9

SPECIAL EVENTS

Tuesday, May 28
Happy Valley Toast Masters, noon, Heritage Room, Redder Commons.

Thursday, May 23
Pennsylvania Centre Stage, 7 p.m., Pavilion Theatre, "The Beeples." For tickets, call (814) 863-0255. Through May 25.

SEMINARS

Thursday, May 23
Center for Gravitational Physics and Geometry, 11:30 a.m., 339 Davey Lab. George Ellis on "Cosmological Models From a Covariant Viewpoint."

Wednesday, June 5
Retirement Planning for Baby Boomers; The Penn State Scanlon. To register, call (800) PSU-TODAY.

CONFERENCES

Saturday, May 25
East Coast Volleyball Tournament, University Residence Halls. Through May 27.

Tuesday, May 28
Emergency Disaster Studies & Strategies, The Penn State Scanlon. Through June 1.

Wednesday, May 29
Beekeepers Short Course, ASI Bldg. Through May 31.

Thursday, May 30
Summer Acoustics Program, University Residence Halls. Through June 30.

Friday, May 31

American Regions Math League, University Residence Halls. Through June 1.

Traditional Alumni Reunion — The Nittany Lion Inn, University Residence Halls. Through June 1.

Unlone Leadership Academy, University Residence Halls. Through June 2.

Sunday, June 3
International Mushroom Conference, Nittany Lion Inn. Through June 12.

A Communications Law Institute, The Penn State Scanlon. Through June 10. To register, call (814) 865-5120.

EXHIBITS

Palmer Museum
"Recent Gifts: The Jack Berish Poster Collection," through June 30.

"Betsy Saar: Tangled Roots," through July 21.

"Workers, An Archaeology of the Industrial Age: Photographs of Sebastião Salgado," through June 30.

Pattee
East Corridor Gallery:

Large-scale ceramic pieces by Michael Mopps, through May 31.

Lending Services Gallery and West Lobby galleries:

Works by Susan C. Struble, semi-realistic with focus on colors, forms, shapes and lines. Through May 31.

■ Reflects an international perspective

ferent musical institutions — for four weeks of intensive rehearsal and performances.

The festival will run from June 22, July 13, with orchestra concerts every Saturday evening and twice weekly chamber ensemble concerts in Eisenhower Auditorium on the University Park Campus. Tickets go on sale Monday, June 3, at the Arts Ticket Center, Eisenhower Auditorium, or by calling (814) 863-0255. Tickets are \$10 general admission for adults, \$4.50 for students and, if four general admission adult tickets are purchased in any combination, buyers will receive a 20 percent discount. Each of the chamber concerts is free of charge.

The orchestra also features members of the Penn State School of Music faculty as well as a number of local musical artists.

Festival orchestra concerts:

■ Saturday, June 22, 7:30 p.m. in Eisenhower Auditorium, Diane Wittry, guest conductor.

■ Saturday, June 22, 7:30 p.m. in Eisenhower Auditorium, Diane Wittry, guest conductor.

■ Saturday, June 29, 7:30 p.m. in Eisenhower Auditorium, Pu-Qi Jiang, conductor; pianist Timothy Shafer, soloist.

■ Saturday, June 29, 7:30 p.m. in Eisenhower Auditorium, Pu-Qi Jiang, conductor; trombonist Mark Lusk, soloist.

■ Saturday, June 29, 7:30 p.m. in Eisenhower Auditorium, Pu-Qi Jiang, conductor; pianist Timothy Shafer, soloist.

with Jonathan Kramer, composer/theorist from the Manhattan School of Music, New York City.

■ Saturday, July 13 in Eisenhower Auditorium, David Loebel, guest conductor; concertmaster of the St. Louis Symphony David Halen, soloist.

At 6:30 p.m. in Eisenhower Auditorium Hill will host a conversation with Loebel, associate principal conductor of the St. Louis Symphony.

■ Chamber Concerts, which are free to the public, are set for 3 p.m. Sundays at Eisenhower Auditorium, June 23, June 30 and July 7, and Fridays at 7:30 p.m. June 28, July 5 and July 12.

Summer drama camp

MetStages Summer Drama Camps for children will be held at the Pavilion Theatre on the University Park Campus in late July and August.

This year's summer camp dates have been set for July 29 through Aug. 2; Aug. 5 through 9; and Aug. 12 through 16. Sessions run from 10 a.m. to 4 p.m. each day and are open to students ages 9 to 12 and 13 to 18.

Students receive performance training from professionals in acting, voice, movement, mime and masks as they rehearse and perform plays from various cultures.

Class size is small and strictly limited. For more information and registration, contact Joann Leonard, MetStages director, at (814) 867-8390.

Campus photo exhibition

A photo exhibition by commercial photographer and local studio owner Julie B. Farr, a Penn State alumna, will be on display through July in the Study/Learning Center Quiet Lounge on the Penn State Worthington Scranton Campus.

Partings

Associate professor retires after 30 years in nursing

Grace Laubach, associate professor of nursing, has retired after 30 years at Penn State.

Laubach, a College of Health and Human Development faculty member, was coordinator of the undergraduate nursing program at Hershey. She joined Penn State in 1965 and was a part of the nursing program in its earliest days, when it was based at Allegheny General Hospital in Pittsburgh. She moved with the program to University Park in 1972, and a year later began teaching at The Hershey Medical Center.

Her contributions to the School of Nursing were recognized in 1989, when she received the Evelyn Saubel Award, which honors faculty for service to students. She has served on a



Grace Laubach

number of committees and task forces for the nursing school as well as the College of Health and Human Development and The Hershey Medical Center, including promotion and tenure, curricular affairs and the search committee for head of the then-Department of Nursing. More recently, she was responsible for helping secure a grant to develop a nurse practitioner program.

She has a bachelor's degree in nursing from Columbia University and a master's degree from Teachers College at Columbia University. She taught at Babies Hospital in the Columbia Medical Center in New York City and at the Allegheny Hospital before coming to Penn State.

Laubach's plans for retirement include national and international travel.

WPSX-TV senior producer ends 28-year tenure

Patrick J. ("P.J.") O'Connell, senior producer with WPSX-TV, Penn State Public Broadcasting, has retired after more than 28 years of service.

He joined the University's public television station Sept. 18, 1967, as a production coordinator, a position he held until 1969, when he became executive producer for public affairs. He was named a senior producer in 1990.

During his years with WPSX-TV, he produced and/or supervised some 150 documentaries as part of the Rural America Documentary Project, including series on Appalachian poverty, small business, rural religion, local politics and race relations in rural America. His last project was a 57-part series titled *Pennsylvania Parade*, which he issued and updated many of the rural documentary productions to form a review of issues and attitudes in rural Pennsylvania over the course of a generation. *Pennsylvania Parade* is currently being broadcast on WPSX-TV.

From 1979 to 1994, O'Connell taught documentary film history and criticism and served as an affiliate assistant professor in the colleges of

the Liberal Arts and Communications. He is the author of the book *Robert Drew and the Development of Cinéma Vérité in America* (1992) and several articles. He also is the recipient of awards from Sigma Delta Chi, National Educational Television, the American TV Commercials Festival, the American Film Festival, the International Public Television Screening Conference and the Corporation for Public Broadcasting (CPB). In 1994, he received a Silver Award from CPB as the documentary producer for the program "Elder Abuse: Whose Problem?" which was a co-production of WPSX-TV and WQED-TV.

He earned a bachelor of science degree in general science and television production from Iowa State University in 1956, a master of arts degree in journalism from Penn State in 1974 and a doctorate in speech communication from Penn State in 1988. Five of his six children are Penn State graduates or are currently students.

He is dividing his retirement time between the Arizona desert and the Colorado mountains.

Penn Staters

Ana Barros, assistant professor of civil and environmental engineering, was recently awarded the Lorenz Straub Award by the St. Anthony Falls Hydraulic Laboratory of the University of Minnesota.

The award, which is presented annually and receives submissions from around the world, recognizes the best doctoral thesis in the area of hydraulic engineering. She received the award for her thesis "Modeling of Orographic Precipitation with Multi-level Coupling of Land-Atmosphere Interactions."

For the second year in a row, David Edwards, associate professor of chemical engineering, has received the American Pharmaceutical Association's Best Prize awarded annually to the author(s) of the best report of an original investigation of a medicinal substance published in the *Journal of Pharmaceutical Sciences*. Edwards shares the award with three co-authors for their paper "A Mechanistic Study of Ultrasonically-Enhanced Transdermal Drug Delivery."

Charles Garolan, a performance artist and associate professor of art education, presented two performance art works in the Hartnett Gallery of Wilson Commons on the University of Rochester Campus in Rochester, N.Y. Garolan's multi-media perfor-

mance art is titled "Confluence" and "Requiem March."

Sridhar Komarneni, professor of clay mineralogy, presented a paper on "Nanocomposite Processing of Electroceramics" at the First Annual Meeting on Ferroelectrics in Xi'an, China. He also spoke at the Beijing Institute of Nuclear Engineering on "Cesium and Strontium Immobilization Using Novel Clays" and at the Microwave-hydrothermal Processing of Metal and Ceramic Powders" at the Institute of Chemical Metallurgy in the Chinese Academy of Sciences in Beijing.

Irene Petrick, research assistant in the College of Engineering and a graduate student pursuing a Ph.D. in engineering science and technology management, was awarded the 1995 Red Rose Award by the Society of Research Administrators. The award is presented each year to the author of the best article published in the *SRA Journal* and was presented to Petrick for her paper titled "The Potential for Public Relations Techniques to Increase the Growth and Financial Stability of Research Activities at U.S. Universities."

Marshall W. Raffel, professor emeritus of health policy and administration, gave the keynote address at the recent Eli Lilly and Project Hope conference on "Managing Evolving Health Care Systems." Raffel spoke on

"Health Systems: An International Perspective."

Raymond Regan, associate professor of civil and environmental engineering, was awarded the 1995 Best Paper Award by the American Foundrymen's Society's Environmental Controls Committee for his paper "Environmental Impact of Foundry Residuals: Pennsylvania Beneficial Use Approach."

Ronald A. Smith, professor of exercise and sport science, delivered the fifth annual Raymond A. Weiss Lecture at the recent annual convention of the American Alliance for Health, Physical Education, Recreation and Dance.

Smith, a sport historian, spoke on "Women's and Men's Models of College Sport from the 19th Century to Title IX: Maternalism and Paternalism."

Victor Sparrow, assistant professor of acoustics and graduate officer for the College of Engineering, has been selected by the Acoustical Society of America (ASA) to receive the Bruce Lindsay Award. The award honors a member of the society under 35 years of age for his or her contributions to the field of acoustics.

Three faculty members in the College of Engineering were recently elected as fellows in national societies. They are:

James Ultman, professor of chemical engineering, has been elected a Fellow of the American Institute of Chemical Engineering; John Tarbell, professor of chemical engineering, has been elected a Fellow of the American Institute for Medical and Biological Engineering; and Mary Jane Irwin, professor of computer science, has been inducted as a Fellow of the Association for Computing Machinery.

Albert Vannice, Distinguished Professor of chemical engineering, is the first to be honored with the title of Fenske Professor, a position endowed by students and friends of Professor Merrill Fenske, former head of the Department of Chemical Engineering at Penn State.

Sam Zamrick, professor of engineering science and mechanics, has been awarded the 1996 Pressure Vessel and Piping Medal, an award given annually to the recipient of the Society of Mechanical Engineers to recognize outstanding contributions in the field of pressure vessels and piping technology.

Zamrick is being honored for providing practical solutions and advanced technology, as well as for his contributions to education, his consulting work and extensive volunteer activities.



Great Valley program to aid displaced workers

Penn State Great Valley recently launched a cutting-edge, accelerated computer training program geared toward those displaced by layoffs and plant closings.

Among the largest and most comprehensive programs ever offered by a university continuing education office, the UNIX System and C/C++ training program took more than a year to design and implement.

Touted as the industry standard, the UNIX computer operating system and C computer language are expected to become corporate legacies, analysts say, and are not likely to be replaced by competitor systems. But despite its foothold on the computer systems market, few Philadelphia-area colleges or universities offer comprehensive UNIX training programs.

The program is a collaborative effort between Great Valley's office of Continuing Education, the University division of Continuing and Distance Education and Massachusetts education consultant Linkage Inc.

"I became convinced of the incredible need for this program after we held a focus group on computer training needs," Allison Jones, director of Continuing Education at Penn State Great Valley, said. "An executive from a neighboring company told us, 'When we want to send our people for UNIX training, we send them to Carnegie Mellon University (in Pittsburgh).'"

An expansive assessment that included a competitive analysis, an industry survey and a demographic analysis confirmed the program's need in the Philadelphia region. Using that information, Great Valley officials created an accelerated certificate program that began in April. The program, with 48 students, is filled to capacity and has a sizable waiting list.

The training prepares participants for careers as systems analysts, application programmers, or systems administrators. In an effort to meet the needs of employed students, two enrollment options were created: full-time, eight-week attendance or part-time (two evenings a week) for 26 weeks.

Job placement and financial aid assistance are also key components.

Anthropology professor elected to National Academy of Sciences

Henry Harpending, professor of anthropology, has been elected to the National Academy of Sciences.

He joins 59 other new members and 15 foreign associates from eight countries who were recognized for their distinguished and continuing achievements in original research. Election to the academy is considered one of the highest honors that can be accorded a U.S. scientist or engineer. The current active membership of the National Academy of Sciences is 1,760.

Harpending has integrated theories and methods from various disciplines into a coherent and well-received perspective. He has done extensive field work among the !Kung, Herero and other peoples of southern Africa on population history and relationships, population dynamics and ecology, and he has written *Structure of an African Pastoralist Community: Demography, Ecology, and History of Ngami-Land Herero*.

In collaboration with colleagues at Penn State, he has developed a new way to analyze mitochondrial DNA differences among human populations that reveals ancient episodes of population growth before the last ice age.

Harpending began his career as an assistant professor of anthropology at Yale University in 1971. He became assis-



Henry Harpending

tant professor of anthropology at the University of New Mexico in 1972, and associate professor of anthropology in 1979. He joined the Penn State faculty in 1985 as professor of anthropology. He received Penn State's Faculty Scholar Medal in 1995.

He received a B.A. in anthropology from Hamilton College in 1964 and a Ph.D. from Harvard University in anthropology in 1972.

The National Academy of Sciences is a private organization of scientists and engineers dedicated to furthering science and its use for the general welfare. The academy was established in 1863 by a congressional act of incorporation, signed by Abraham Lincoln, that calls upon the academy to act as an official adviser to the federal government, upon request, in any matter of science or technology.

Other members of the National Academy of Sciences at Penn State are Paul T. Baker, Evan Pugh Professor emeritus of anthropology; Stephen J. Kenovick, Evan Pugh Professor of chemistry and holder of the Eberly Family Chair in chemistry; Karl H. Beyer Jr., visiting professor of pharmacology, The Milton S. Hershey Medical Center; Nirma V. Fedoroff, professor of biology, holder of the Verne M. Williamson Chair in life sciences and director of the Biotechnology Institute; Calyampudi R. Rao, holder of the Eberly Family Chair in statistics and director of the Center for Multivariate Analysis; William T. Sanders, Evan Pugh Professor emeritus of anthropology; Robert K. Selander, Eberly Family Chair in biology; David A. Shirley, professor of chemistry and physics and senior vice president for research and graduate education; and Philip S. Skell, Evan Pugh Professor emeritus of chemistry.

Input sought on staff review plan

One year after initiating the Staff Review and Development Plan, the office responsible for putting it in place would like to evaluate its success.

The Office of Human Resources has set up an easy-to-respond-to electronic survey that will help it look at the effectiveness of the plan. The survey is expected to point out the program's strengths and determine what steps need to be taken to change or improve the review process for future use.

In an effort to reduce survey costs and to make it easier for participants to respond, an electronic form is being used. The assessment form, which is available on the Office of Human Resources' World Wide Web home page at URL www.ohr.psu.edu, can be found under the subhead "Information, SRDP." The format allows the survey to be electronically returned and if accessed and responded to through this Web site, the response will be anonymous. Instructions for completing and returning the form are provided on the Web page.

The form also is available through e-mail, however, responses through this form cannot be answered anonymously. If some faculty and staff members are uncomfortable responding electronically, the survey can be printed and mailed to the Office of Human Resources, Box 6, Rider Building, University Park Campus.

Faculty and staff members who do not have access to either the Web or e-mail survey formats, can obtain a copy of the survey through human resources representatives and directors of Business Services.

Survey responses should be returned to OHR by mid-June.

Smeal faculty near top of field

Two recent studies in the *Journal of Operations Management* ranked The Smeal College of Business Administration productions and operations management faculty among the best in the United States and the world.

Experts from the University of South Carolina said The Smeal College was second in the country in producing research published in top journals in the field. Meanwhile, authors from the University of Utah said Smeal was top in the East—ahead of Columbia, Harvard, Penn and MIT—and sixth nationally. Top individual recognition was garnered by Jack C. Hayya, professor of management science, who tied for seventh nationally in one category of the University of Utah report.

Teaching and research in productions and operations management in The Smeal College are centered in the Department of Management Science and Information Systems, under George B. Kleindorfer, chairman.

The University of South Carolina reviewed articles published over 15 years (1980-1994) in five journals judged to be the best in the field. Overall, The Smeal College was ranked second to Purdue University and ahead of The Ohio State University, the University of Minnesota and Texas A&M in the top five.

Nationally, the Utah team placed The Smeal College sixth behind Michigan State in first place, Ohio State (second), South Carolina (third), Minnesota (fourth) and Cincinnati (fifth).

Intercollege unit seeks director

A director for the Intercollege Materials Research Laboratory (IMRL) is being sought. The laboratory carries out research on a wide range of topics in the materials area.

The director should have excellent leadership skills, possess a vision for research at IMRL, promote and facilitate research programs, maintain budgetary authority over general funds and encourage extensive collaborative research at Penn State. It is expected that the director will carry out an excellent research program, in addition to assuming administrative responsibilities at IMRL.

Screening of applicants will begin June 1. Applications will be accepted until the position is filled.

Nominations and applications, including a current resumé, should be sent to: Howard Grotch, chair of the selection committee and professor and head of the Department of Physics, 104 Davey Laboratory, University Park, Pa. 16802. Women and minorities are encouraged to apply.

Awards

More than 30 honored for their achievements in C&DE

More than 30 University faculty and staff members have been honored by Continuing and Distance Education for outstanding achievement. An Awards Committee comprised of representatives from C&DE units selected the 1996 award recipients, who are:

■ **Kathleen Pavelko**, assistant general manager of Penn State Public Broadcasting, was honored with the Vice President's Award, which recognizes a continuing and distance educator who has demonstrated the highest standard of achievement in performing their responsibilities.

■ **Debra W. Shafer**, program planning associate with the Office of Program Planning, received the Service to the Profession Award.

■ **Aaron "J.R." Cole**, C&DE audiovisual technician, earned the Marybeth Reese Distinguished Service Award for his contributions to community and civic organizations. Among his many activities, Mr. Cole plays Santa Claus for terminally ill children, distributes food for a food bank and coaches Little League.

■ **B. Allan Quigley**, associate professor of education at Penn State Monroeville, received the Award for Academic Excellence for his commitment to continuing and distance education, sensitivity to the needs of diverse student populations, leadership, and creativity and innovation in program development and instruction.

■ **Janet M. Rosenbaum**, program coordinator at the Penn State Wilkes-Barre Campus, won the Emerging Continuing and Distance Education Professional Award. She was cited for several accomplishments, including the creation of a \$100,000 microcomputer laboratory at the campus.

■ **Terrence L. Riley**, director of continuing education at the Penn State York Campus, and **John F. Enderlin**, training specialist at York Campus, were honored with the Award for Outstanding Partnership with Continuing and Distance Education for developing the York Industrial Education Consortium. The consortium, now in its fifth year, brings together members of the York business community to discuss the education and training needs of area workers.

■ **Brian E. Siskora**, assistant director for budget and finance for Penn State Public Broadcasting, received the Award for Creativity and Innovation for his contributions to creating a proactive finance office that has achieved high standards of customer service and quality.

■ **Elaina M. McReynolds**, continuing education representative at Penn State Great Valley, led a team that won the Award for Team Support. This Great Valley team hosted the Pennsylvania International Competitiveness Summit, which brought together more than 100 representatives

from the public and private sectors, government and businesses across the state. Team members include **Lawrence S. Cote**, campus executive officer; **Jill Rhodes**, staff assistant; **Gerald McLaughlin**, director of University relations; **Dawn A. Woodring**, publications specialist; **Tim Ballentine**, instructional systems specialist; **Linda J. Beavers**, administrative assistant; and **Dorothy Ray**, staff assistant.

■ **Nancy A. McCord**, conference planner with Conferences and Institutes, received the individual Award for Outstanding Customer Service for her dedication and professionalism in serving clients.

■ **Thomas O. Mincemoyer**, manager of the C&DE Office of Information Systems (OIS), and his staff were honored with the Team Award for Outstanding Customer Service for their dedication to introducing new technology and teaching staff members how to use it. OIS staff members are **Thomas J. Alterio**, programmer/analyst; **Dennis W. Bender**, senior graphic designer; **Scott D. Cathell**, support specialist; **Thomas J. Collins**, senior applications programmer/analyst; **Richard Genovese**, training and support coordinator; **Tracy L. Gross**, staff assistant; **Harold J. Horton**, training and support coordinator; **David Langton**, programmer/analyst; **Jeffrey F. Luck**, network coordinator; **Andrew M. Pillot**, training and support specialist; and **Cheryl A. Seybold**, programmer/analyst.

■ **Peter K. Forster**, assistant director for the Department of Distance Education, received the Award for Developing New Audiences for developing the Russian Distance Learning Program in collaboration with the University of Minnesota.

■ **Jeffrey F. Luck**, network coordinator with the C&DE Office of Information Systems, won the Award for Technical Support for developing, installing and maintaining the C&DE computer network.

■ **Tracy L. Gross**, staff assistant with the Office of Information Systems (OIS), earned the Award for Staff Assistant Support.

■ **Jean A. McGrath**, client development manager for the Department of Distance Education, received the Program Development Award for leading the team that created the 1995 teleconference titled Garden of Excellence: WIC Facilitated Discussions. More than 600 employees of the Women, Infants and Children (WIC) Program at 35 sites in five southwestern states participated. Team members include **Cheryl Achterberg**, director of the Penn State Nutrition Center and developer of the teleconference; **Marie H. Hornbein**, producer, Penn State Public Broadcasting; **Mary Lou Kiel**, project coordinator, Nutrition Center; and **Jane Babcock** and **Deanna Torres**, New Mexico Department of Health.

Journal of Buddhist Ethics wins internet award

The *Journal of Buddhist Ethics*, a peer-reviewed electronic journal in religious studies, has won an international Internet award.

The site, co-edited by **Charles S. Prebish**, associate professor of religious studies, and **Damien Keown** of the University of London, was named as one of the Best of 1995 Social Sciences, Humanities & Asian-Pacific Studies WWW Resources" in a contest sponsored by the Coombs Computing Unit of the Research Schools of Social Sciences & Pacific and Asian Studies at the Australian National University in Canberra.

Out of the 80 sites nominated, the *Journal of Buddhist Ethics* garnered 22.7 percent of the votes casts, earning the title "1995 Most Popular WWW Resource."

The *Journal of Buddhist Ethics* began in July 1994 and now boasts a subscriber base of more than 800 people in 39 countries.

In the past, the site has also earned a "Top 5 Percent Web Site" rating by Point Communications Corp. in their Point Survey and a "Four-Star" rating in all categories by Magellan.

Research fellowship goes to assistant professor of philosophy

Daniel W. Conway, associate professor of philosophy, has been awarded a 12-month Research Fellowship by the Alexander von Humboldt Foundation for research in the Federal Republic of Germany. He will be affiliated with the Humboldt Universität zu Berlin, where he will conduct research for a book on contemporary political philosophy.

Humboldt Research Fellowships are awarded to scholars in all disciplines worldwide. About 500 new fellowships are granted each year. The fellowship enables the recipient to spend a period of at least one year at a German research institute of choice.

Assistant professor of physics wins Cottrell Scholar Award

Research Corporation has selected **Thomas J. Gramila**, assistant professor of physics, as one of 13 faculty nationwide to receive a 1995 Cottrell Scholar Award. Named in honor of Frederick Gardner Cottrell, the founder of Research Corp., the award provides a \$50,000 grant to beginning faculty members at university departments of astronomy, chemistry or physics.

The award winners were selected for their contributions to and success in undergraduate teaching, their commitment to pursuing careers as teachers-scholars, and the potential for mounting a strong research program.

Among Dr. Gramila's teaching accomplishments are innovations in testing techniques and computer demonstrations for Physics 201, the introductory physics course for students majoring in science and engineering disciplines.

The award will help to support his research in electron physics, including a research project titled "Electron Drag Measurements: A New Window on Electron Physics."

BOOK SHELF

Robin Becker, associate professor of English, juxtaposes poems based on her Jewish-American identity with poems that explore erotic desire in her new book *All-American Girl*.

Published by the University of Pittsburgh Press (1996) as part of the Pitt Poetry Series, the book is a mix of poems that work traditional forms (rhymed tercets, syllabics, villanelle) and free-verse lyrics as she writes sensually and candidly about her life. In every setting, Becker investigates how ideology shapes our desires—for each other, for peace of mind, for the things of this world.

Becker is also author of *Giacometti's Dog* and has received fellowships in poetry from the Massachusetts Artists Foundation and the National Endowment for the Arts. She is currently on a fellowship at the Bunting Institute of Radcliffe College.

Diana Hume George, professor of English and women's studies at Penn State Erie, The Behrend College, has published a book of poems, *Koyanqasqit*, with Heatherstone Press.

Thomas A. Hale, professor of African, French and comparative literature, is the editor and translator of *The Epic of Asik Mohammed*, a 1,602-line narrative he recorded from a Songhay griot, or keeper of the oral tradition, in Niger in 1980. It is the first linear version of the epic to appear in English.

Asik Mohammed was the ruler of the vast Songhay empire in West Africa from 1493 to 1528. He is best known for his pilgrimage to Mecca in 1497, his efforts to spread Islam in West Africa and the development of a complex system of administration for the empire based in Gao, a city on the Niger river in eastern Mali.

The Epic of Asik Mohammed first appeared in a Songhay-English bilingual version in 1990 that was part of a longer comparative study by Hale. For this edition he has written a new introduction and revised the translation. The volume is the second in the African Epic Series which he co-edits with **John William Johnson** for Indiana University Press.

Wendell Harris, professor of English and Fellow of the Institute for the Arts and Humanistic Studies, is the author of *Literary Meaning: Reclaiming the Study of Literature*, published by New York University Press.

Literary Meaning argues that over the last 25 years literary theory has become increasingly characterized by illogical arguments, an esoteric vocabulary and gnostic references to the author that various authority figures are presumed to have demonstrated. Arcane

modes of argument and unargued assumptions frustrate the non-specialist reader who seeks illumination from contemporary theorists and their epigones.

Harris argues that the most significant distinction among competing literary theories and methodologies lies between a traditional hermeneutics that regards the interpretation of the author's intended meaning as the necessary first step in reading, and fashionable forms of hermeneutics that deny the relevance of intention, the possibility of determinate meaning and the relevance of language to any reality beyond itself. Chapters are devoted to exploring the fallacies of hermeneutics, the error of literary structuralism in seeking to emulate science and post-structuralism's misunderstanding of what validity means in the physical sciences and the holowness of the current model of professionalism in literature departments.

Robert Lima, professor of Spanish and comparative literature, and Fellow of the Institute for the Arts and Humanistic Studies, had a new book published in Spain jointly by Editorial Nigra Imaxe and the Consorcio de Santiago de Compostela. *Valle-Inclán. El teatro de su vida*, Lima's new book, is the first biography in Spanish on the author in 30 years.

Four Penn State meteorologists are authors of a new text and laboratory book that combines rigorous science with a relaxed and accessible text and up-to-the-minute data and examples.

A World of Weather: Fundamentals of Meteorology, published in 1996 by Kendall Hunt Publishing Co., was written by **Jon M. Nese**, associate professor of environmental science, **Lee M. Greci**, instructor in the Department of Meteorology, graduate student **David J. Mornhinweg** and **Timothy W. Owen** of the National Climatic Data Center.

A World of Weather is designed for both introductory classes in traditional meteorology programs and colleges offering only one course in weather. Grace and humor lighten a text that is specifically student oriented. Each of the 16 topic chapters is followed by a series of questions for thought; questions for laboratory experimentation; and questions for review.

The book deals with meteorological measurement, fundamental weather phenomena, storms and flood and drought patterns. It concludes with chapters on human impact on weather and climate, and the climatology of Pennsylvania and Florida. The 500-page book has extensive maps and diagrams, black/white and some color

photographs and substantial statistical material.

Bruce A. McPherson, associate professor of entomology, is editor of a new book, *Fruit Fly Feeds: A World Assessment of Their Biology and Management*, published by St. Lucie Press. McPherson and his co-editor, **Gary J. Steck** of the Florida Department of Agriculture, have produced a volume that serves not only as the proceedings of the Fourth International Symposium on Fruit Flies of Economic Importance, but also as a reference to the research community on management of this important group of agricultural pests.

More than 150 authors from 20 different countries have contributed 77 articles to this volume. Invited chapters identify significant advances in our knowledge and suggest new areas of research in 12 broad areas including behavior, genetics, population dynamics, the sterile insect technique, and quarantine policies and procedures.

K. Warner Schaie, Evan Pugh Professor of human development and psychology and director of the Gerontology Center, is co-editor of the new book *Older Adults' Decision-Making and the Law* (Springer Publishing).

The book focuses on the legal definitions of competence in older adults, and how social, behavioral and ethical considerations affect those legal definitions. It represents the edited proceedings of a 1993 conference held at Penn State and sponsored by the Gerontology Center.

Among those who contributed chapters to the book are **Rae Brown**, Penn State instructor in nursing; **Cheryl Dellasega**, associate professor of nursing and biobehavioral health; **Lori Frank**, a doctoral student in human development and family studies; and **Sherry Willis**, professor of human development.

The book's senior editor is **Michael Smyer**, a former College of Health and Human Development faculty member who is now dean of the Graduate School of Arts and Sciences at Boston College. A third editor is **Marshall B. Kapp**, an attorney and director of the Office of Geriatric Medicine and Gerontology at Wright State University.

The book is the eighth volume in a series on the societal impact on aging; all of the books in the series grew out of conferences held at Penn State.

Ladislav Semali, assistant professor of education, is author of a new book titled *Post Literacy in the Age of Democracy: A Comparative Study of China and Tanzania*.

Published by Austin & Winfield, the book focuses on the acquisition, use and retention of literacy. China and Tanzania launched massive and seemingly successful efforts to extend basic education to their rural areas, and Semali highlights the contradictions and tensions that emerge in countries where economic legacies of underdevelopment and colo-

niaлизм while coping with the pressures of an increasingly integrated and competitive global economy.

This book addresses the ordinary citizen, investments in the untapped wealth of human resources, oppressive policies—the dilemma between feeding the hungry or destroying food to keep prices high and the contradictions of demand-and-supply economics.

The Wisdom of the Bones: In Search of Human Origins focuses on the "find of the century"—the discovery of a close-to-complete fossil skeleton of a teenaged, male *Homo erectus*. Although long identified as the missing link between apes and humans, this species reveals an unexpected mixture of human and inhuman traits. The story is told by **Alan Walker**, professor of anthropology and paleoanthropology, who directed the discovery and analysis of the fossil, writing with **Pat Shipman**, adjunct associate professor of anthropology.

From the thrill of discovery to the rituals, disciplines, procedures and insights of analysis, this insider's tale of the science of anthropology and paleoanthropology details the false leads, historical precedents, sudden intuitions and startling conclusions during the step-by-step analysis of this remarkable fossil. In the end, readers learn about not only the boy's anatomy and physiology, but also about his life and behavior. The book is published by Alfred A. Knopf.

Gary S. Webster, associate professor of anthropology and director of the Penn State Sardinia Program at the Mont Alito Campus, has published his second monograph on Sardinian prehistory.

A Prehistory of Sardinia, 2300-500 BC attempts to provide a complete up-to-date synthesis of all existing evidence on Nuragic settlement, technology, economy, trade and ritual found on this Italian island. The monumental stone edifices and peculiar bronze votive figures of Sardinia have long fascinated travelers and archaeologists. Only recently have scholars outside the island recognized its potential significance for understanding development of broader Mediterranean interest—in particular, the emergence of stratified societies in ancient times.

Bruce Weigl, professor of English, is the author of a new volume of poems titled *Sweet Lorain*. In this book, published by TriQuarterly Books/Northwestern University Press, Weigl writes about the connections between his childhood in a working-class world and the powerful effects of the Vietnam War. *Sweet Lorain* is a description of living one life in two vastly different worlds, as Weigl returns to both Vietnam and the Lorain, Ohio of his youth.

Weigl is the author of six previous collections of poetry, including *What Saves Us*, also published by TriQuarterly Books/Northwestern University Press.

Scientists develop a gentler test for heart disease

By SCOTT TURNER
Public Information

Scientists have taken a small step toward understanding a broken heart.

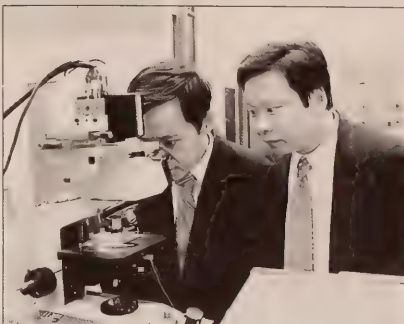
They have built a model to try out a fast test for heart disease. The test measures the contractile force of a single heart cell without destroying it.

The human heart is made up of millions of individual contractile units—heart cells. Some heart disease, even in early stages, can impair a heart cell's ability to contract and relax.

Current tests for single heart cell contractions are tedious and as likely to destroy a cell's membrane and cause cell injury as they are to indicate disease. Published techniques for measuring contractile force of heart cells use hard contact between a sensor probe and a cell removed by a biopsy.

In contrast, the non-destructive method developed at Penn State relies on a laser and a high-speed camera to illuminate and capture the contractions of a heart cell, also removed via a biopsy, in soft contact with a gel-like fluid. This optical technology then portrays, in real-time, the cell's movement on a micro-computer.

"We think this new test can help us better understand why patients with heart disease develop different types of heart failure and offer



Graduate student Chu-Lung Chen, left, examines heart cells under a microscope while electrical engineering researcher Shizhuo Yin looks on. The two have built a model to see if a fast test for heart disease is successful.

Photo: Greg Grieco

insight into how to avoid that development or on how to treat the ailment." Shizhuo Yin, an electrical engineering researcher, said. Heart failure is characterized by the heart's inability to effectively pump blood to meet the body's demands.

Yin's co-researchers are Dr. Joseph Y. Cheung, professor of med-

icine and physiology and chief of the Division of Nephrology at the Milton S. Hershey Medical Center, and Chu-Lung Chen, a doctoral student.

The researchers tested the system by creating a synthetic heart cell. This cell is actually a microscopic glass tube with an inner diameter the size of a real cardiac cell. At one end of

the tube is a micro heater. The other end is immersed in the fluid, forming an air bubble in the tube. Heating or cooling the tube changes the bubble's size. The heater also vibrates the bubble to simulate contractions of a real cardiac cell.

In experiments, the researchers found that the air bubble vibrates at the same frequency as contractions from a rat's cardiac cell.

"It looks like the real heart cell contraction process," Yin said.

The researchers used the high-speed camera, which shoots 200 frames per second, to capture the air bubble's vibrations. Analysis of these readings was consistent with direct observations of the bubble through a high-powered microscope and with theoretical calculations.

Use of the man-made cell also allowed the scientists to calibrate the apparatus, based on theories of fluid mechanics and thermodynamics.

In the next year, the researchers will use the system to determine the contractile force of a rat's heart cell and compare and contrast contractile abnormalities in different rat models of heart disease. They also will compare their findings with data from other techniques.

"This will allow us to know our system's exact performance, which will help us improve its accuracy and reliability," Yin said.

The research is funded by the Whittaker Foundation.

Geneticists may be able to identify disease-causing changes in genes

Geneticists at The Hershey Medical Center have devised a mathematical tool they believe will allow scientists to distinguish disease-causing changes in genes from normal variations.

The technique may someday help researchers tell when a genetic mutation might be related to a disease and when it is a normal difference in the genetic code, known as a polymorphism. A polymorphism would be the difference in a gene that makes blue and brown eyes, for example.

"The question is, 'How does one know when you have detected a true mutation in a gene?'" said Peter Rogan, assistant professor of pediatrics. For example, in some cases, both parents must carry a disease gene for a child to have a one in four chance of inheriting a disease.

"When both parents are carriers of genetic mutations in the same gene, they are at risk of having a child with a disease. However, they may be unaware of their status until the mutation is identified," Dr. Rogan explained. "Given that there are so many harmless variants in the sequence of amino acids in a protein, how can the physician know whether a patient carries mutations that cause or predispose him to disease?"



Schneider of the National Cancer Institute have come up with an approach that may reduce the effort and cost of determining whether the changes are harmful.

"We've devised a quantitative analytical approach for doing this," Dr. Rogan said. The researchers use the method to examine DNA sequences called splice junctions, which are found in nearly all human genes and are important in processing genetic messages.

In fact, because it's frequently difficult to tell whether a change in a genetic sequence actually contributes to disease, geneticists often must compare suspected disease-causing DNA sequences to those that are normal in some 30 or 40 unaffected individuals.

Dr. Rogan and colleague Thomas Schneider of the National Cancer Institute have come up with an approach that may reduce the effort and cost of determining whether the changes are harmful.

The researchers can calculate the amount of genetic information at a certain site and determine if there is a significant loss of information in the variant site, which would suggest that the change was a mutation. No change or a small change in the amount of information indicates that the variant is a normal polymorphism.

Because this method measures how much information is present at a site, it also may be used to predict how severe a mutation might be.

Severely affected individuals tend to have less genetic information—they might be missing pieces of genes—than those less affected. Dr. Rogan thinks the new tool would offer advantages in testing for certain diseases. One example is Gaucher's disease, a metabolic disorder with symptoms ranging from severe to mild. Gaucher's may be caused by several different mutations in the same gene, making it difficult to predict how bad the disease will be.

Dr. Rogan believes that if two carriers decide to have children, the new technique may predict, based on the amount of genetic information present at the site of a gene mutation, how severely affected the couple's children may be.

A patent on the technique is pending.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Champions

Penn State captured its first Big Ten baseball championship with an 8-7 victory over Ohio State in the final game of the regular season. Coach **Joe Hindelang's** squad is the only Lion team to win a regular conference title in 1995-96.

Wrestling tournament coming in 1999

Penn State has been awarded the 1999 NCAA Division I Wrestling Championships. The NCAA Executive Committee approved the recommendation of its wrestling committee that the championships be held in The Bryce Jordan Center on March 18-20, 1999.

Honored

Hall of Fame honors are in the offering for a number of Penn State personalities.

Women's basketball coach **Rene Portland** will be inducted by the Delaware County Chapter for the Pennsylvania Sports Hall of Fame on May 31.

Former Nittany Lion basketball standout **Robert Donato Jr.** will join Portland as a Delaware County inductee.

For the Record

■ Orthodox Christmas, to be celebrated on Jan. 7, 1997, was inadvertently omitted from a listing of religious observances published on page 2 of the May 7 issue. Please mark your calendars.

■ NAESA: Association of International Educators funded a program enhancing the Fulbright experience. The organization was misidentified in a story on page 15 in the May 7 issue.

Intercom online

You can see portions of this issue in electronic form on the World Wide Web.

To access front page stories, diversity issues, features, arts listings and the University Park Calendar online, go to the University Relations home page at URL <http://www.ur.psu.edu> and click on the Intercom button.

To view past issues of the *Intercom* dating back to Jan. 18, go to the *Intercom* home page and click on the archive button.

Scholars hit the road for unIQUE education



Off to an early start

The day began early on May 15 for the roughly 60 faculty members who arrived at The Penn State Scenicton by 7:30 a.m. to begin the Road Scholars tour of Pennsylvania.

At left, Bill Mahon, director of Public Information, left, greets **Sandra Spanier**, associate professor of English, and tour guides **Martha Staring**, recently retired director of development for the College of Health and Human Development, and **Richard E. Grubb**, senior vice president and dean emeritus for CES, as they prepare to board the two buses chartered for the "Tour of the Commonwealth."

The tour, which lasted two days, stopped at the Harrisburg, Hershey and Berks campuses, the Pennsylvania College of Technology, schools and civic organizations and some businesses. In addition, the group visited the Hawk Mountain Sanctuary in Kempton and spent time with Pennsylvania legislators in Harrisburg.

President **Graham B. Spanier** organized the tour to acquaint faculty hired since July 1, 1994, with the University's Commonwealth Campuses and with the various regions of Pennsylvania served by the University. Faculty on the tour were also able to see the vast impact the University has on the state.

Intercom plans wrap-up coverage of the tour in the June 6 issue with photographs and a story from the point of view of one of the faculty members on the trip.

Photos: Andrea Hurley



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Thinking spring

Taking advantage of a beautiful spring morning, Office of Physical Plant employee Ralph Homan plants marigolds near the parking lot adjacent to Walker Building on the University Park Campus.

Photo: Andrea Hurley

Three named Evan Pugh professors

Three names have been added to the list of Evan Pugh Professors—the highest honor the University bestows on a faculty member.

University President Graham B. Spanier announced those honored. They are: James B. Anderson, Evan Pugh Professor of chemistry; Paul F. Baum, Evan Pugh Professor of mathematics; Leonard S. Jefferson, Evan Pugh Professor of cellular and molecular physiology.

It is a real pleasure to see these three outstanding people awarded Penn State's most prestigious faculty title," Spanier said. "Their achieve-

ments inspire students and faculty colleagues and greatly enhance Penn State's leadership."

The University last named Evan Pugh Professors in 1994, when five faculty members were accorded the honor. Appointment of these research scholars brings to 23 the number of Evan Pugh Professors currently serving Penn State. A total of 49 appointments have been made since the professorships were established in 1960. Nine are now deceased, 14 have retired, and three have taken posts at other universities.

A committee of seven distinguished faculty members, including three Evan Pugh professors, reviewed nominations for the honor and made recommendations to President Spanier.

Evan Pugh professorships are awarded to faculty members whose "research publications or creative work or both have been of the highest quality over a period of time, and further to candidates who show evidence of having contributed significantly to the education of students who later achieve recognition for

See "Evan Pugh" on page 3

Plan outlines commitment to child care

President Graham B. Spanier has approved a University Child Care Action Plan that reinforces Penn State's commitment to providing access to quality child care for faculty, staff and students.

The plan, developed by the Office of Human Resources with input from the Child Care Advisory Committee, parents and child care professionals, establishes a policy coordinating all University child care and family programs.

The plan was spurred by the recognition that substantial unmet demand for child care remains.

"The University supports the philosophy that quality child care should be available to accommodate the children of talented and dedicated faculty, staff and students," Spanier said. "This plan will guide us toward that vision;

See "Child care" on page 2

Scanticon to be managed by the University

Penn State officials in mid-May announced plans to pursue a new direction for the operation and management of The Penn State Anticon Conference Center Hotel, which opened in May of 1994 and has had a strong beginning.

"The financial challenge for the University is such that we need to re-analyze every single unit for cost efficiency opportunities," Gary Schultz, senior vice president for finance and business, said. "As a part of this process we believe we need to

See "Scanticon" on page 3

Inside

Hitting the highway



President Spanier's two-day bus tour with new faculty in tow wound its way across Pennsylvania on May 15 and 16. For more on the tour, turn to pages 10 and 11.



Murals return to Burrowes Building

The Biggers' murals are back on campus. For a view, take a trip to the Burrowes Building on the University Park Campus. To find out where to view other works of art, see page 8.

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Search team looking for research vice president

A 12-member search committee has been appointed by President **Graham B. Spanier** to help fill the position of vice president for research currently held by **David A. Shirley**, who will retire at the end of the year.

Applications and nominations for the position of vice president for research are currently being sought. The vice president for research reports to the president and is responsible for administering and establishing policy on research. As a senior academic officer, the vice president participates in the formulation of academic and fiscal policy for the University and represents the University's research interests to federal and state governments, the international community and industry.

Penn State is ranked 13th nationally in total research and development expenditures and second nationally in private industry sponsored research support. In 1994-95, the University's total research and development expenditures were \$344.3 million and \$50.2 million in private industry sponsored research support. Although a major portion of the research activities take place at the University Park Campus, elements of the research program exist at all 23 of Penn State's campuses.

In addition to research conducted in academic departments or in organized research units within the individual colleges, the vice president oversees

interdisciplinary research in 15 intercollege research units. The vice president oversees Penn State's Research Park, technology transfer programs and a broad range of research support services, including the Health Physics Office, the University Press, the Office of Regulatory Compliance and the Laboratory Animal Resources Program.

Candidates for this position should have academic credentials appropriate for appointment as a tenured professor with an accomplished record of research; a broad understanding of academic institutions; executive experience and proven leadership capacity; understanding and support for the University's multiple missions and its commitment to cultural diversity; commitment to fostering interdisciplinary research; evidence of experience in fiscal management; and the ability to attract human and financial resources to the University.

The search committee will review applications and nominations beginning Aug. 1, and will continue to receive them until a candidate is selected. Nominations and applications, accompanied by a resume or equivalent information, and the names, addresses and phone numbers of four references, should be mailed to: **David N. Wormley**, chair, Search Committee, Vice President for Research, 201 Old Main, Box 1, University Park, Pa. 16802.

The 12-member search committee will screen applications and nominations and submit a list of candidates to the president, and take part in the final interview schedule. The name of the top candidate must be forwarded by President Spanier to the Board of Trustees for approval.

Members of the committee include:

Judith S. Bond, assistant dean and chair of the Department of Biochemistry and Molecular Biology at The Milton S. Eisenhower Medical Center; **Jill Ann Bush**, graduate student, kinesiology; **Gordon F. De Jong**, distinguished professor of sociology; **Carol Herrmann**, senior vice president for administration; **Arthur E. Humphrey**, professor of chemical engineering; **Catherine G. Lyons**, director, Center for Minority Graduate Opportunity; **Harvey B. Manbeck**, professor of agricultural engineering and chair of the Senate Committee on Research; **Andrea M. Mastro**, professor of microbiology and cell biology; **Walter Robb**, retired senior vice president for research of General Electric; **William D. Taylor**, director, Intercollege Research Programs; and **Lynne Vernon-Feagans**, associate dean for research and professor of human development.

Women and minorities are encouraged to apply.

Child care

continued from page 1

the individuals who helped formulate it are to be commended for their dedication."

The plan was spurred by the recognition that substantial unmet demand for child care remains at many University locations. For example, a pilot program at the University Park Campus in cooperation with St. Paul's United Methodist Church has a waiting list of 210 families. A waiting list also exists for a planned child care facility at the Penn State Research Park. The plan recommends that this facility be completed during 1997 and operated by an independent provider to accommodate approximately 200 children.

Other recommendations from the plan include the building of a new child care center in a central campus location at University Park by fall 1997 for up to 150 children; and the identification of on-campus space for school-age care as needed during the school year and for existing school-age summer camps.

The plan also provides for an update of the 1991 needs assessment of each campus. Recommendations on programs or services to meet identified needs will be formulated by appropriate administrators at the affected locations with input from the Child Care Executive Committee, then forwarded to **Gary Schultz**, senior vice president for finance and business.

Options for meeting a location's needs may include referral services to area child care centers or family day care homes, collaborative programs with other area businesses and institutions, University-operated programs and contractual arrangements with private agencies for programs in on-campus facilities. Issues of quality, flexibility and affordability, among others, will be primary considerations as decisions are made.

"This will provide for consistency of quality throughout the University and ensure that resources are most efficiently and effectively used," **Billie Willis**, assistant vice president for human resources, said.

The plan calls for private fund raising to sup-



Quality care

The University's plan to provide access to quality child care for faculty, staff and students will coordinate all University child care and family programs.

port child care and the incorporation of child care center planning in the University's master planning process.

Total annual University support for child care has passed the \$900,000 mark. Beside the actual facilities and personnel, this figure reflects resource and referral services, vouchers, training and parent education through the Work/Life Programs Office.

Since the completion of the 1989 Child Care Task Force report for Penn State, new centers have opened at Penn State Erie, The Behrend College, Penn State Harrisburg and The Milton S. Eisenhower Medical Center. The University has also partnered with local school districts to increase flexibility in school-age programs and to establish before- and after-school child care programs.

Evan Pugh

continued from page 1

excellence in the candidates' discipline or interdisciplinary areas."

■ JAMES B. ANDERSON

Anderson is a professor of chemistry in the Eberly College of Science whose work in physical chemistry has yielded important breakthroughs in such fields as surface science, supersonic molecular beams, crossed-beam reactive scattering, the rare event approach to molecular dynamics and quantum mechanics. Among other research efforts, he pioneered the application of the quantum Monte Carlo method to the calculation of the energies of atomic interactions, resulting in a series of exact predictions for small molecules and highly accurate predictions for larger systems.

He earned his undergraduate degree in chemical engineering at Penn State in 1957, a master's from the University of Illinois in 1958 and a Ph.D. from Princeton University in 1963. He did postdoctoral research and became an assistant professor at Princeton before joining Yale University as an associate professor in 1968. He returned to Penn State in 1974 and became a full professor in 1976.

He has been supported by grants from the National Science Foundation (NSF), the Office of Naval Research and the American Chemical Society, among other sources. He is continuing his studies of "Quantum Chemistry by Random Walk" with NSF funding and is a co-researcher on the projects "Physics of Correlated Systems," "High Performance Computing in Materials Physics and Chemistry" and "Curriculum Development in Advanced Computation." He also has served as a consultant to such organizations as the Lawrence Livermore National Laboratory, Exxon Research and Engineering Company, and CTE Sylvania Incorporated.

In his career he has received Silver and Gold Evan Pugh Medals, a National Science Foundation Graduate Fellowship, a Penn State Faculty Scholar Medal and a Humboldt Prize. He is also a fellow of the



James Anderson

American Physical Society and the American Association for the Advancement of Science and a former associate editor of the *Journal of Chemical Physics*.

■ PAUL F. BAUM

Baum is a distinguished professor of mathematics in the Eberly College of Science who has gained international recognition

for his work on applying K-theory to a variety of mathematical problems. Among his important early research was the extension of the Riemann-Roch theorem to algebraic varieties which may be singular. His current projects include studies that center on a proposed formula for the K-theory of group C* algebras. This work cuts across several different branches of mathematics to unify a number of well-known problems in representation theory and geometry-topology and can be applied to such topics as the layout of trees, buildings and symmetric spaces.

He earned his undergraduate degree from Harvard College in 1958. Following a year at the Ecole Normale Supérieure in Paris, he earned his master's and Ph.D. degrees from Princeton University in 1961 and 1963, respectively. Before joining Penn State in 1987, he taught at Princeton and Brown University. He has been a visiting fellow at Oxford and Cambridge Universities; a visiting member of the Institute for Advanced Study and the Mathematical Sciences Research Institute in Berkeley; and a visiting mathematician at the Institut des Hautes Etudes Scientifiques at Bures-sur-Yvette, France, since 1980.

He has held an uninterrupted National Science Foundation Research Grant since 1965 and the NSF, Penn State and the University of Colorado will hold a meeting in honor of his 60th birthday in Boulder in July. He has also earned funding from the United States-United Kingdom and United States-France Cooperative Science Program Research Grants.

He has lectured about mathematics extensively in the United States, Canada, Europe, the United Kingdom, Central and South America and Japan. Recently, he was an invited speaker at a conference in Moscow honoring the 100th anniversary of the birth of Russian mathematician P.S. Alexandrov.



Paul Baum

■ LEONARD S. (JIM) JEFFERSON

Jefferson is professor and chair of cellular and molecular physiology and associate dean for research and graduate studies in the College of Medicine at The Milton S. Eshelman Medical Center. His research has concentrated on diseases associated with disorders of endocrinology and metabolism, especially diabetes, nutrient deprivation and obesity. In recent years, he has been interested in characterizing the diabetes-induced biochemical and molecular lesions in protein synthesis, mammalian tissues such as liver, heart and skeletal muscle, and in elucidating mechanisms involved in the action of insulin to correct these lesions.

His research is funded through two long-standing grants from the National Institute of Diabetes and Kidney Diseases and through two grants from the Juvenile Diabetes Foundation International. He is also co-investigator on another research grant, director of a post-doctoral training grant in endocrinology, diabetes and metabolism and co-director of a pre-doctoral training grant in physiological adaptations to stress, all from the National Institutes of Health.

He earned his undergraduate degree from Eastern Kentucky University in 1961, took special studies at Harvard University in 1962, earned a Ph.D. from Vanderbilt University in 1966 and pursued postdoctoral studies at Cambridge University in 1966-67. He joined Penn State as an instructor in 1967 and rose to full professor by 1975. He is currently a consultant for the Diabetes Centers at the University of Washington, the University of Pennsylvania, and the University of Massachusetts.

He has won such honors as the Elliot P. Joslin Award and the Lilly Award, both from the American Diabetes Association; the MERIT Award from the National Institutes of Health; and the David Rumbough Scientific Award from the Juvenile Diabetes Foundation International. He became president of the American Physiological Society in 1995. He has served on editorial boards for the *Journal of Diabetes* and the *Journal of Biological Chemistry* and is a former editor of the *Journal of Physiology: Endocrinology and Metabolism*.



Leonard Jefferson

Scanticon

continued from page 1

consolidate under our own management the operation of The Penn State Scanticon.

"We regret that this new direction will mean that at the conclusion of the initial phase of our long-term management contract with Scanticon International Inc. in May 1997, we will lose the services of a management partner for whom we have great respect. We have had a fine working relationship with both Scanticon's corporate executive team and its management staff at The Penn State Scanticon. They have done a great job as our partner getting the conference center hotel established in a solid operating position."

The Penn State Scanticon, located in the Research Park, is the largest center of its kind in American higher education. It offers full conference coordination

services, state-of-the-art educational technology and professional on-site staff. The 242,000 square-foot, first-class facility includes 150 hotel guest rooms, 52,000 square feet of meeting space, two ballrooms seating 600 and 1,000, a restaurant, pool, fitness center and indoor lap pool.

In 1991, Penn State entered into a contract with Scanticon International, a Princeton, N.J.- and Denmark-based hotel and conference center management company to provide its know-how and experience for the planning, design and development phases of the project, and for the operation and management of the completed conference center hotel. Scanticon placed one of its most experienced and highly regarded executives, Samuel Glasgow, as the general manager of the property.

"The University has been very satisfied with Scanticon's performance in terms of both quality and service as well as substantial growth in revenues and net operating income, which were significantly better than budget targets each year," Schultz said. "We hope we can transition as many of the well-trained, dedicated and professional Scanticon staff as possible into our operation."

"We respect the University's decision to change direction, but it has left a sad void for the Scanticon team," Jorgan Roed, Scanticon's founder and chief executive officer, said. "Our great partnership with Penn State in creating and operating this unique, high-quality conference center hotel has been much more than just a business—it has been a dedication to achieve the very best and the finest in our professional lives."

"We will leave next year in May with great pride in what has been

accomplished under The Penn State Scanticon name," Roed said. "We have created a strong beginning and a very promising foundation for the future of The Penn State the very best in continuing the operation of this crown jewel of university-based conference center hotels."

In describing the future of the conference center hotel, Schultz noted that conference bookings are strong and that, with the growth of the Research Park and the potential for growth, consolidating the hospitality operations will allow the University to accommodate the growth while reducing overall costs.

Tom Gibson, assistant vice president for Auxiliary Services who oversees Housing and Food Services at the Nittany Lion Inn and The Bryce Jordan Center, will lead the transition team for the University. He stressed that the transition plan would ensure as little interruption as possible in service at the center.

New "virtual classroom" is under construction

By BARBARA HALE
Public Information

Penn State's new, team-oriented approach for cyber-students is being applied first — with the aid of a \$545,000 Alfred P. Sloan Foundation grant — to an acoustics continuing education program for engineers interested in quieting industrial products or processes.

However, Alan Stuart, principal investigator on the project, says the new approach could also be used to give other groups of dispersed learners the convenience of computer-based, anytime, anywhere, self-paced study and the mutual support that comes from collaborating and learning as part of a team.

Stuart, associate professor of acoustics in the College of Engineering and senior research associate at the Applied Research Laboratory, is building the new program on 10 years of experience in distance education. He and his colleagues in the College of Engineering developed and currently offer a series of 15 graduate-level courses in acoustics that lead to a master of engineering degree. This award-winning program delivers live, interactive compressed video classes directly on-site to large industrial and government organizations across the United States. Stuart and colleagues also have designed and developed a review course intended to help home-based learners prepare for the first of two examinations required for certification as a professional engineer. The course was offered for the first time last year to 20 geographically dispersed students.

In developing these earlier courses, Stuart, who is director of Penn State's distance education program in acoustics, realized that distance education has improved access to education but has reinforced the learner's isolation.

"The problem is finding an appropriate mix of technologies to create an effective learning community and to fostering collaborative learning to prepare learners for the dynamics of life in a team-oriented workplace," he said.

To address these issues in the new courses, instruction will be delivered via a multi-media approach, including CD-ROM, hardbook, study guide, computer networking and telephone conferencing. However, to foster collaboration, teams of three to five learners will work together for the duration of the two-year program.

Through this new approach, learners will have the convenience of entering the "virtual classroom" whenever and wherever they turn on their computer. However, they will no longer be the only student in the class. Their "classmates" will be readily accessible via computer-based "groupware" including e-mail, bulletin boards, listservs and chat rooms.



The future is now

William Rose, left, of the Office of Continuing and Distance Education, and Alan Stuart, associate professor of acoustics in the College of Engineering, work on a multi-media approach to distance education. A mix of technology will be used to create an atmosphere of collaborative learning.

Photo: Andrea Hurley

Stuart calls this dispersed, group learning approach an "Asynchronous Learning Network" (ALN) and said it is the "next generation of virtual classroom."

The new courses will be directed specifically to engineers who are interested in reworking their careers and to small groups of engineers working at companies that have noise control concerns but that require education for only two or three staff members.

The program will consist of four non-credit course taken by all of the students enrolled, plus a fifth course focused on the specific noise and vibration concerns of a particular industry, such as aircraft, automotive or appliance.

A comprehensive examination at the end of the five-course program will qualify the learner for a "certificate" of competence.

"We are currently exploring the possibility that the comprehensive examination may be the 'board-certified membership' examination of the Institute of Noise Control Engineers," Stuart said. "It is our hope that the certificate program in noise control engineering will earn acceptance as a standard by the industry."

Stuart and his group are currently working on the first "module" of the first of the five courses. His collaborators on the module include Victor Sparrow, assistant professor of acoustics, William Rose and Ann Taylor of the Office of Continuing and Distance Education, Vicki Williams of the Center for Academic Computing and Frank Wilson of WFSX-TV.

Other collaborators on the Sloan-funded project include Courtney Burroughs, professor of acoustics and ARL senior research associate; Gerald C. Lauchle, professor of acoustics; John Lamancusa, associate professor of mechanical engineering; Monty Theadway, and Jiri Tichy, professor and chairman of the graduate program in acoustics.

Stuart thinks that his next generation "virtual classroom" approach can be applied not only to acoustics but to a wide variety of disciplines. He sees it as a possible delivery system for continuing education for physicians and other health care workers, as an aid to companies preparing workers to open markets in unfamiliar cultures and as a component of the "extension system" of the future.

Promotions

Staff

John R. Long, financial counselor at The Hershey Medical Center.

Judith A. Lysiak, supervisor, Coding, Medisgroup and Tumor Registry, at The Hershey Medical Center.

Ophelia M. Matjasic, administrative assistant III at The Hershey Medical Center.

Julieann Pepper, patient account assistant at The Hershey Medical Center.

Stephen D. Peterson, senior systems analyst in Computer and Information Systems-Center for Academic Computing.

Carol M. Pierson, staff assistant V in College of the Liberal Arts.

Alison D. Reeves, coordinator, Marketing & Membership Relations, in Research and Graduate School.

Darlene M. Schaffer, supervisor, word processing and chart completion, at The Hershey Medical Center.

Theresa M. Sheaffer, staff assistant VI at The Hershey Medical Center.

Kathleen F. Sherman, staff assistant VI in College of Earth and Mineral Sciences.

Jill C. Slowakiewicz, administrative assistant II at The Hershey Medical Center.

Patricia A. Smith, campus registrar at Penn State Ozone Campus.

Peggy L. Stewart, staff assistant VII in the Office of the President.

Sandra M. Vector, coordinator, Diversity Support and Education, in Office of the President.

Diana M. Wagner, facilities assistant in College of Engineering.

Karen M. Walker, marketing associate in Research and Graduate School.

Marlene M. Wartluft, staff assistant VI at The Hershey Medical Center.

Angela L. Weaver, employment specialist at The Hershey Medical Center.

Deborah A. Wills, staff assistant V in Continuing and Distance Education.

Debra A. Witherite, staff assistant V in College of Engineering.

Lynndaire C. Yecina, administrative assistant II in Applied Research Lab.

Technical Service

John S. Andrus, boiler operator in Office of Physical Plant.

David G. Bartlett, patient service aide at The Hershey Medical Center.

Matthew E. Bryan, maintenance worker, utility, at Penn State Hazleton Campus.

Robert D. Campbell, boiler operator in Office of Physical Plant.

Lawrence P. Galsgoy, maintenance worker General B at Penn State Harrisburg.

Jeffrey L. Hubler, boiler operator in Office of Physical Plant.

Shirley A. Humbert, maintenance worker, utility, at Penn State York Campus.

Ricky T. Kasubick, operating mechanic in Office of Physical Plant.

Jean S. McKnight, maintenance worker, utility, at Penn State York Campus.

Daniel S. Russell, mixer, specialty, in Housing and Food Services.

Russell C. Weber, maintenance worker, utility group leader, at The Bryce Jordan Center.

Sylvia I. Wellar, guard I in Applied Research Lab.

Mildred I. Zimmerman, media attendant at The Hershey Medical Center.

Private Giving

Widow donates \$1 million to renovate football facilities and endow scholarship

Villanova resident Mildred Lasch has given Penn State \$1 million to help renovate the Nittany Lion football team training building and to endow a football scholarship.

Lasch designated \$750,000 of her gift to remodel and equip the locker room, training room, weight room and lounges used by football student-athletes. The Nittany Team Building—adjacent to Holuba Hall on the University Park Campus—will be renamed the Louis E. Lasch Football Building in honor of Lasch's late husband, a 1928 pre-law

graduate of the University. He was one of the five founding members of the Nittany Lion Club, a group of individuals committed to providing the resources to ensure that Penn State student-athletes receive the financial support necessary to continue the University's tradition of excellence in the classroom and on the field.

The football scholarship, endowed with the remaining \$250,000, will be named the Mildred and Lou Lasch Endowed Football Scholarship. This scholarship will be

awarded to a student enrolled at the University who plays varsity football.

Lou Lasch, who died in 1995, was a retired senior partner in the Philadelphia law firm Meyer, Lasch, Hankin and Paul. He entered Penn State by examination at the age of 15 and earned his law degree by age 21. He was active in the Penn State Fund Council, which was the predecessor of the National Development Council, a group of volunteers committed to advancing the University through philanthropic endeavors.

Faculty/Staff Alerts

Bitnet addresses soon to be obsolete

Because of rapid changes in the structure of the Internet, users of e-mail at the University may have to change the electronic addresses of the people with whom they correspond. A decade ago, most universities were BITNET sites, but that number has shrunk dramatically in the past two years. By January 1997, few BITNET addresses— which usually look like this: JTH@PSUV.M.BITNET— will work.

Officials in the Center for Academic Computing suggest that e-mail users look at their lists of correspondents and their accompanying addresses to determine if there are any on the list that still use the BITNET address.

If you are in doubt about a new address, write to your correspondent via their BITNET address and simply ask for an Internet style address (ie. JTH@PSUV.M.PSU.EDU). Likewise, when you give other people your e-mail address, be sure to give it as an Internet-style address: jth@psu.edu or jth@psuvm.psu.edu.

If you have questions or need assistance, contact the Center for Academic Computing's Help Desk at (814) 863-1035, (814) 863-2494, or send e-mail to helpdesk@psu.edu.

Libraries summer session hours

University Libraries on the University Park Campus will maintain the following schedules during summer session June 12 through Aug. 10:

Pattee Library

The Arts Library, Documents/Maps, General Reference, Lending Services, Life Sciences Library, Periodicals and Reserve Reading Room/Microforms will be open Monday through Thursday from 7:45 a.m. to 10 p.m.; Friday, 7:45 a.m. to 9 p.m.; Saturday, 8 a.m. to 5 p.m.; and Sunday, 1 to 10 p.m.

Interlibrary Loan, Photoduplication, Historical Collections and Labor Archives, and the Rare Books Room will be open Monday through Friday from 8 a.m. to 5 p.m. and closed Saturday and Sunday.

The Penn State Library/University Archives will be open Monday through Friday from 9:30 a.m. to 5 p.m. and closed Saturday and Sunday.

The Music Listening Room will be open Monday through Thursday from 9 a.m. to 10 p.m.; Friday, 9 a.m. to 6 p.m.; Saturday, noon to 5 p.m.; and Sunday, 1 to 10 p.m.

Branch Libraries

The Architecture Library, Earth and Mineral Sciences Library, Education Library, Engineering Library, Mathe-

matics Library and Physical Sciences Library will be open Monday through Thursday from 7:45 a.m. to 10 p.m.; Friday, 7:45 a.m. to 5 p.m.; Saturday, 8 a.m. to 5 p.m.; and Sunday, 1 to 10 p.m.

Pollock Library will be open Monday through Thursday from 8 a.m. to 12 a.m.; Friday and Saturday, 8 a.m. to 10 p.m.; and Sunday, 1 p.m. to 12 a.m. On Saturday, Aug. 10, Pollock Library will close at 5 p.m.

All libraries will be closed on Thursday, July 4.

For more information on hours of library service, call (814) 865-3063, type HELP HOURS when using the Library Information Access System (LIAS), or visit our hours Web site at <http://www.libraries.psu.edu/pubinfo/hrrssum.htm>.

Forms on demand

Despite a trend toward more University forms becoming available electronically, many forms continue to be on paper. This is due to limited resources in converting them to electronic form, or to unique processing requirements which cannot be accomplished electronically.

In response to this situation, Systems and Procedures has implemented a method to allow users to effectively download many paper forms on demand via the Internet. More than 33 form images are now available for local printing from the University's GURU (General University Reference Utility) Web site. Some of the advantages are:

- Users are guaranteed to receive the current version of a form.

- Users can have a blank form to use within minutes as opposed to waiting days to receive them by mail.

- There are no wasted forms to recycle when a form changes.

Form image files are in a PDF format (Portable Document Format) which requires PDF viewer software for viewing and printing, in addition to a Web browser. Adobe Acrobat reader software is available free for various computer platforms from Adobe Systems. It can be obtained at <http://www.adobe.com/acrobat/> or by ftp from <ftp.adobe.com> under <ftp://pub.adobe.com/Applications/Acrobat>

Once a user has installed the Acrobat reader software, a PDF document can be accessed and a blank form printed that looks identical to the official University form, regardless of the type of personal computer or printer. It is not currently possible to complete one of these forms before printing.

Official University PDF forms are noted in the table of contents of the "Forms" Section of the General Forms Usage Guide area of GURU, as well as on each respective instruction page. GURU is located at <http://guru.sp.psu.edu>.

WEB BROWSER

University Style Manual is available online

The Department of University Publications is offering the first electronic, online version of the University's official *Editorial Style Manual*.

This excellent reference, which has been produced in printed versions for several years, answers publication style questions related to Penn State. The editors of this work recommend using the *Chicago Manual of Style* as a general guide in preparing printed material, and this style manual for University-specific style questions. A printed version will continue to be produced.

Did you know, for instance, that it's "University Creamery," not "Penn State Creamery?"

The digital version may be found using your Web browser at <http://www.ur.psu.edu/PUBS/PLIBS.html>

You'll need software called "Acrobat Reader" to view the style manual, but it's free and the above page has links that can guide you to the company's pages.

Summer reading list

We all need time to reflect on what these new technologies are doing to us and for us. One suggestion for summer reading is *Out of Control: The New Biology of Machines, Social Systems, and the Economic World*, by Kevin Kelly (Addison-Wesley Publishing, 1994).

Another online resource has been put together by the New York Public Library. Titled "The Global Library," the NYPL Centennial Exhibition offers a tour of the World Wide Web. This exhibition examines the effect of the global communications technologies on our collective memory and also offers thoughtful discussions about our future.

Main URL: <http://www.nypl.org/>
Global Library exhibit URL: <http://globallib.nypl.org/>

If you know of an unusual or particularly innovative use of the Web, please send the URL to du59@psu.edu.

UNIVERSITY WELCOMES RELIGIOUS EXPRESSION

Freedom of expression important at Penn State

By GRAHAM B. SPANIER

In recent weeks there has been much discussion throughout the Commonwealth on events surrounding the selection of the student speaker for the commencement at The Smeal College of Business Administration. I believe it is important for all members of the University community to understand Penn State's position on this very important matter.

The selection of the business administration speaker was made by a committee of five students and five members of the college staff. The committee struggled with a number of issues in deciding which speaker to select, and acted in what it sincerely felt were the best interests of the college. Unfortunately, it made what I consider to be an improper decision to ask the student speaker to eliminate from his speech his personal thanks to God. The student then withdrew as the speaker.

I believe the process used in selecting the speaker was flawed, and despite the best intentions of the committee, the outcome was unfortunate and antithetical to what the University stands for.

I want to say very clearly to all

Penn Staters that this decision in no way reflects the University's position with respect to religious expression. Penn State is unequivocal in its commitment to the principles of free speech and freedom of religion. As an institution, we have no reservations whatsoever about a student offering thanks to God in a commencement address. To do so is not only legal, but proper. It is my fervent hope that Penn State would never deny a student the right to acknowledge the importance of his or her spiritual beliefs.

The problems surrounding this commencement are unfortunate and should have been avoided. We will do everything in our power to ensure that this type of situation is never repeated. Penn State will always be strongly committed to allowing freedom of expression.

I sincerely hope that this episode will not distract loyal Penn Staters from their support of our broader goal of humanizing the University through sensitivity, tolerance and understanding. We should feel great pride in what we do, and all who work and study here should know that freedom of expression will never be a concern.

Endorsing free speech at the University

R. SCOTT KRETCHMAR

The controversy surrounding the student speaker at the recent commencement

for The Smeal College of Business Administration has drawn much national and statewide attention to the University.

Legislators, donors, students, faculty, parents and the governor have spoken out about the decision to ask the speaker to eliminate references to God. Many of the criticisms that have been made have chastised Penn State for taking a position that would restrict the rights of individuals to exercise free speech and, in particular, religious expression.

Although the decision that led to the student withdrawing as a speaker was more complex than has been portrayed in the media, we believe that any effort to restrict the expression of ideas is out of place within the University. Academic settings, perhaps more than any others, need to encourage open dialogue and respect for diversity.

The Faculty Advisory Committee acknowledges the prompt efforts of President Graham Spanier to correct the situation and to reassure the University community that it is not only permissible but appropriate for students and others to express their personal beliefs in the academy. We understand that, in recent weeks, President Spanier has personally written letters to hundreds of clergy and newspaper editors reaffirming Penn State's commitment to freedom of expression and rejection of any University actions that would seek to regulate one's speech.

We support these and other efforts to set the record straight about Penn State and religious expression, and we strongly endorse the University's commitment to maintain an environment that not only welcomes diversity but also celebrates one of our most cherished rights — the freedom of speech.

R. Scott Kretchmar is professor of exercise and sport science in the College of Health and Human Development and chair of the University Faculty Senate.

"...we strongly endorse the University's commitment to maintain an environment that ... celebrates one of our most cherished rights — the freedom of speech."

— R. Scott Kretchmar

Grange members plan visit to building that is their legacy

In a little more than a week, about 130 members of the Pennsylvania Grange will descend on the University Park Campus for a leadership conference and a look at a donation that has weathered nearly 70 years and continues to serve as a hub for undergraduates.

On June 14, Grange members will tour the Grange Building—a structure whose history parallels the history of both the University and the nation. In the 1920s, each Grange member in the state was asked to donate \$2 toward the \$250,000 building fund as a way to express their appreciation for Penn State's services to agriculture and, according to news accounts from that time, to show that members "think more of their boys and girls than they do of their horses and cattle."

Constructed in 1929—the same year as the stockmarket crash that led to the Great Depression and at a time when the women's suffrage movement had gained considerable momentum—the Grange Building,

located in the central core of campus, served as the University's first women's dormitory.

"This was a monumental undertaking on the part of the Granges. It was a lot of money for that time and something like this had never been done in those proportions," said Gordon Hiller, state master for the Pennsylvania Grange and a member of the University's Board of Trustees. "This was unprecedented."

Having undergone several facelifts over the years, the Grange Building is now home to the Division of Undergraduate Studies, an academic unit of the University, some offices of the Office of the Vice Provost for Educational Equity, a few student affairs offices and the Institutional Development Program.

Marking its 125th year of existence in 1996, the 31,000-strong, statewide Grange also contributed \$40,000 toward the construction of the Ag Arena on the University Park



Tour scheduled

Members of the Pennsylvania Grange will visit the Grange Building on the University Park Campus on June 14. The local chapter of the Grange is best known for its August Grange Fair at the Grange Fairgrounds in Centre Hall.

Campus in 1986. Hiller hopes that the June tour will again spur the Grange, which has close ties to the University, to embark on another project.

"I'm hoping that we can consider a student aid scholarship pro-

gram," Hiller said. "I think it's time to focus on student aid and the need to provide educational opportunities to young women and men. We need to work on assisting the younger generation and rejuvenating the membership."

The following story is part of an ongoing series
on auxiliary enterprises of the University, which are largely self-supporting.

Jordan Center quickly proving to be valuable asset for region

By GARY CRAMER
Public Information

After playing host to icons of rock-n-roll, some of country western's hottest stars and now the nation's president, The Bryce Jordan Center is proving its worth as not only an entertainment venue and convocation center, but also as a valuable resource for the University and its students.

As one of the University's newest facilities, the Jordan Center on the University Park Campus—which officially opened to the public in January—employs more than 200 students.

"Working for the Jordan Center is a great opportunity for students to learn about the entertainment/arena management field," Robert Howard, general manager, said. "To make their experience here more like what they will encounter after graduation, all of the students hold paid positions—many in supervisory capacities. We also have paid interns whose duties are specifically tailored to build on their academic studies."

For example, intern Mark Shulman, a senior majoring in integrative arts, serves as stage manager for the center in addition to being president of the University Concert Committee. Among other duties, Shulman handles many of the production and local promotional needs for incoming acts, coordinates work schedules for other center workers assisting the acts and oversees many details of backstage preparation during events.

Among other positions, students also work in the box office and as customer service representatives, ticket takers, ushers and door guards. In total, the center employs



On the job

Two University employees at the Jordan Center set up the sound system for the May 10 visit by President Bill Clinton.

Photo: Greg Grieco

nearly 500 people and is expected to host up to 200 events annually.

It has been projected that only about 30 percent of the events held at the center will be athletic in nature, with the remaining 70 percent or so being largely cultural and academic-oriented. Indeed, besides the larger cultural and sporting events that have already appeared at the facility, through its sheer size and variety of rooms, the Jordan Center has opened up new and expanded programming opportunities for such academic-related functions as career days, job fairs, banquets and commencements.

"Down the road, we also see the colleges bringing in speakers that

will gather larger audiences than we have normally been able to handle here at University Park," Howard said.

Meanwhile, an economic impact study done before construction of the center began suggested the local economy could reap \$23.9 million in benefits annually from the facility's existence.

The Jordan Center operates under an implied understanding with the state to serve as a resource to the citizens of Pennsylvania. The state supplied \$33 million of the construction costs and the University supplied \$22 million, all of which came from private fund-raising campaigns.

Penn College names Alumnus of the Year

Pennsylvania College of Technology presented its 1996 Alumnus of the Year award to Raymond J. Marshalek, founder and president of Fairfield Manufacturing Co. Inc., of Montoursville.

Marshalek is a 1955 graduate of the Williamsport Technical Institute (WTI), one of Penn College's predecessors.

Marshalek was a co-founder of Norcen Industries Inc. of Jersey

Shore, followed by the founding of Fairfield Manufacturing Co. Inc., a company specializing in the precision machining, manufacturing, assembly and design of metal and plastic component parts.

He is a member of Penn College's Manufacturing Program Advisory Committee, which provides professional guidance for the toolmaking technology, machinist general, automated manufacturing and manufac-

turing engineering technology programs.

Nominations for the outstanding alumnus award are accepted for graduates of Penn College or its predecessors, Williamsport Area Community College and Williamsport Technical Institute. A nominee should have made significant contributions in his or her chosen field or benefited his or her community, state or nation.



Site license program expires June 30

Penn State's Microsoft Select Site License Program will expire June 30. Software applications within the select program will be absorbed into the Microsoft program at a slightly higher price after that time. Please place any Microsoft application orders before the end of the fiscal year to take advantage of the Microsoft select program pricing. If you have any questions about these programs, please e-mail pmk@psu.edu.

Mac RAM prices drop again

The prices on Macintosh RAM have come down even further. Be sure to check the latest price list if you're thinking about upgrading the memory on your Mac.

PowerPoint error

Microsoft discovered a screen redraw error in the U.S. English version 7.0a of Microsoft PowerPoint for Windows 95. If you have already installed Version 7.0a of Office 95 and PowerPoint 95, you can obtain a patch from Microsoft which corrects this error. Download the patch from the Microsoft PowerPoint Internet Web site

(<http://www.microsoft.com/mspowerpoint/>), or call Microsoft customer service to have the patch disk sent to you at no charge. The customer service phone number is (800) 360-7561.

IBM licenses MacOS for PowerPC

IBM announced its deal to license the MacOS from Apple Computer Inc. in hopes of boosting the PowerPC chip's market share by making low-cost Macintosh clones possible. Officials at IBM's Microelectronics Division said sales of an OS/PowerPC bundle will focus on the MacOS but will also include a PowerPC bundle that includes Windows NT.

For more information, check the MOC Web site at URL: (<http://moc.cac.psu.edu>).

The ARTS

AT PENN STATE



Final step

Kevin Slippy, left, and Robert Carson prepare to ease one of the "Harvest Songs" murals into its frame for rehanging. The murals, painted in 1947 by Penn State student John Thomas Biggers and hanging in Burrows Building on the University Park Campus for nearly five decades, have been restored by Manuel W. Theodore, a professional conservator of paintings, and are once again on display.

Photo: Greg Gricio

Production at Penn State Erie

This year, Penn State Erie, The Behrend College, revives its theatrical tradition in the Studio Theatre on campus with "Two Rooms," its first summer production since 1982.

"Two Rooms," by playwright Lee Blessing, is a compelling political and social drama and a love story. Performances are scheduled for June 6-8, June 14-16 and June 21-23. Evening performances begin at 8 p.m.; Sunday performances at 2:30 p.m. Tickets are \$6 per person. Call the box office at (814) 898-6016 for reservations.

Broadhead Cultural Center schedules summer events

The Broadhead Cultural Center at Penn State Beaver Campus will kick off its 20th anniversary season of summer programming with a free Broadway musical review presented by The Showstoppers at 8 p.m. Tuesday, June 18.

All June performances will be held in the Cultural Center's outdoor, 700-seat J.P. Giusti Amphitheater. All shows are free, and all shows begin at 8 p.m., unless otherwise noted.

■ June 20: The Sewickley Symphony will appear; ■ June 27: The Harvey R. Kelly Jr. Players present

BRYCE JORDAN CENTER

Upcoming events

June 14-16

Preview '97 Regional Trade Show
"Come See The Future," Friday, 5-9 p.m., Saturday, 10 a.m.-9 p.m., Sunday, 10 a.m.-3 p.m.

June 29

The Double Trouble Tour featuring country music stars Travis Tritt and Marty Stuart, with special guest Ricochet, will perform at 7:30 p.m. Tickets for the event are \$24.50 plus a \$1 surcharge. For ticket information, call (814) 865-5555 or (800) 863-3336.

July 4-5

The Great American Fireworks Festival Featuring "A Taste of Centre County" and "The Family Playground"

Visit the official Bryce Jordan Center home page at URL: <http://www.bjc.psu.edu>.

the children's play "The Princess Who Could Not Cry," at 10 a.m. and 7 p.m.

To obtain a detailed schedule of events or for additional information, call the center at (412) 773-3600.

University Park Calendar June 6 - June 23

SPECIAL EVENTS

Monday, June 10

College of Communications, 6:30 p.m., Carnegie Cinema, Dan Abrams, "Court TV" correspondent and commentator on the O.J. Simpson case for NBC's "Today Show," presents "Covering Trials for Network Television."

Tuesday, June 11

GSA Film Series Explazaganza 1996. Humphrey Bogart festival: *Casablanca*, Kern Graduate Center.

Wednesday, June 12

Summer classes begin-Eight week session.

Thursday, June 13

Music at Noon, Fisher Plaza. Tim and Elise Duo, contemporary. Ice Skating "Divisions," 8-11 p.m., Penn State Ice Rink.

Friday, June 14

Jordan Center Event: Preview '97 Regional Trade Show. Booths available. Call (814) 863-1541.

Ice Cream "Divisions," 7-8 p.m., Creamery Patio. Swingin' Dixie, doo-wop.

Pennsylvania Center Stage, 8 p.m., Pavilion Theatre. "Forever Plaid," through June 29. For tickets, call (814) 863-0255.

Monday, June 17

Dance Aerobics "Divisions," 8:30-10:30 p.m., White Bldg. Gym

Tuesday, June 18

GSA Film Series Explazaganza 1996. Humphrey Bogart festival: *The Big Sleep*, Kern Graduate Center.

Music at Noon, Fisher Plaza. Redwing, Irish and American folk.

Wednesday, June 19

"Opera for the Movies," 7:30 p.m., Music Bldg. Recital Hall. "Carmen," by George Bizet.

Thursday, June 20

Music at Noon, Fisher Plaza. Bruce and Jesse Young, folk fiddle, guitar. HUB "Distinctive Styles" concert, noon, Fish-bowl. Edgar Cruz, classical and rock music.

Ice Skating "Divisions," 8-11 p.m., Penn State Ice Rink.

Friday, June 21

Ice Cream "Divisions," 7-8 p.m., Creamery Patio. Urban Fusion Jazz Band.

Saturday, June 22

Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium. Orchestra Concert. For tickets, call (814) 863-0255.

Sunday, June 23

Music at Penn's Woods, 3 p.m., Eisenhower Auditorium. Chamber Music Concert. Admission is free.

SEMINARS

Monday, June 10

Lecture, Dan Abrams, Court TV correspondent, on "Covering Trials for Network Television," 6:30 p.m., Carnegie Cinema.

Tuesday, June 11

Summer Seminar, 4 p.m., Penn State Room, Nittany Lion Inn. WenWu Cao on "Modeling from A to Z: A Challenge for Interdisciplinary Research." Reception, 3:30 p.m.

Wednesday, June 12

Engineering Science and Mechanics, 10 a.m., 215 Hammond Bldg. Thomas Henning on "Nano- and Microparticles in the Interstellar Medium."

Thursday, June 13

Summer Seminar, 4 p.m., Penn State Room, Nittany Lion Inn. Robert T. Simpson on "Molecular Medicine." Reception, 3:30 p.m.

CONFERENCES

Sunday, June 9

International Mushroom Conference, Nittany Lion Inn. Through June 12.

Monday, June 10

NECADA, Penn State Scinticon. Through June 12. Advance FFA, Findlay Commons. Through June 14.

Tuesday, June 11

FFA Activities Week, Findlay Commons. Through June 13. "Fermentation Methods and Scale-up Strategies," 8:30 a.m., Frear Lab. Hands-on biotechnology training workshop. To register, call (800) 778-8632.

Wednesday, June 12

"21st Annual Character Music Workshop," 7 p.m., Music Bldg. lobby. To register, call 1-800-778-8632.

Thursday, June 13

Landscapes of Murder: The Geography of the Genre. A conference for mystery enthusiasts, readers and writers. For more information call 1-800-778-8632.

Friday, June 14

Pa. State Grange Leadership Academy, ASI Bldg. Through June 15. Forest Stewardship Group, North Hills. Through June 16.

Monday, June 17

Private Forest Management Tools, Penn State Scinticon.

Tuesday, June 18

Bug Camp for Teachers, Headhouse III. Through June 20.

Thursday, June 20

"Sports Nutrition for Young Athletes—A Guide for Parents" workshop, Penn State Scinticon. Kristine Clark will outline proper nutrition for young athletes. To register, call 1-800-778-8632.

Exhibits

Palmer Museum

"Recent Gifts: The Jack Bershad Poster Collection," through June 30.

"Betsy Sarr: Tangled Roots," through July 21.

■ Reflects an international perspective

Current issues in business examined in lecture series

"Cooperation as Competitive Advantage," a presentation focusing on the impact global economy has on the structure of business organizations, will be held at noon Wednesday, June 12, at the Eastgate Center in Harrisburg as part of the Current Issues in Business Lecture Series.

Carolyn R. Dexter, professor of management in the School of Business Administration at Penn State Harrisburg, will discuss the new types of skills now required of managers and employees to compete effectively in a global economy. She will also talk about the relationship

among members of different organizations and the extent of change now taking place.

To register for this free lecture, call the center at (717) 772-3590.

Other lectures planned for the coming year include:

- "Mergers and Acquisitions: Employees' vs. Investors' Interests," Sept. 11;

- "Organizational Culture and Employee Participation," Oct. 9;

- "Promises and Pitfalls of Changes in Tax Policies," Nov. 12; and

- "Market Trends in Health Care," Dec. 3.

Seminar emphasizes media literacy

To address the impact of the media on teaching, educators will gather at The Penn State Scanticon July 27-31, for the Penn State Media Literacy Summer Seminar.

Offered as a continuing and distance education service of the College of Communications, the seminar covers three important areas: what is media literacy, why teach media literacy and implementing media literacy in American classrooms.

During the course of discussions, the program will expose teachers to

the critical pedagogy of teaching media literacy from K-12. Participants will undertake exercises which involve intensive reading, analysis of media messages and images that pervade the American culture. The goal of these activities is to stimulate teachers to think critically about all media information, from textbooks to television.

To obtain a brochure or registration information, contact Georgia Abbey at (814) 863-5140 or visit the seminar Web site at URL <http://www.cde.psu.edu/C&I/MediaLit/>.

Teleconference focus is ergonomics

"Industrial Ergonomics: Increase Productivity and Decrease Workers' Compensation Costs," an interactive video teleconference, will be held at Penn State Erie, The Behrend College, on Wednesday, June 12, from 8:45 a.m. to 1 p.m. in the Academic Building Studio. Cost of the event, geared toward engineers and managers involved with manufacturing at small and mid-sized companies, is \$60.

The video conference, part of an ongoing series for manufacturers, will cover several topics including the background of ergonomics, cumulative trauma disorders, manual material handling and the components of an ergonomics program.

For more information about the event, call the Pennsylvania Technical Assistance Program at (814) 898-6145.

LECTURES

Free showcases to key on management development

In an effort to assist corporations, agencies and associations with the vast changes occurring in the business world today, Penn State Erie, The Behrend College, will offer two no-cost management development showcases during June.

On Friday, June 7, the college will present "A Proactive Approach to Stress Management," which will teach participants to understand the nature of stress, to recognize stressors, and to plan strategies and tactics for coping with organizational stress.

On Thursday, June 27, "Change Management in Turbulent Times," will provide participants with an

understanding of the change process and skills for implementing change. John McKissick, instructor in liberal arts at the Penn State McKeesport Campus, will teach this session.

Both management development showcases will be held in the Reed Union Building and will begin at 8 a.m. with a continental breakfast and continue from 8:30 to 11:30 a.m. with the showcase presentation.

While there is no cost to participate in these sessions, registration is required. For more information, please contact Penn State-Behrend's Division of Continuing and Distance Education at (814) 898-6103.

Talk looks at media coverage of trials

Dan Abrams, a Court TV correspondent and commentator on the O.J. Simpson case for NBC's "Today Show," will present "Covering Trials for Network Television" at 6:30 p.m. Monday, June 10, in the Carnegie Cinema on the University Park Campus.

Abrams, who also has covered the assisted suicide trials of Dr. Jack Kevorkian and the constitutional challenge to the government's policy on gays in the military, joined Court TV in 1992. Before that, he wrote articles on gun control and the Second

Amendment for *The New York Times*, *The Nation* and *USA Today* magazine. He is a graduate of Duke University and the Columbia University School of Law.

The lecture is sponsored by the Office of Summer Sessions, the College of Communications and the Pennsylvania Center for the First Amendment.

For more information, contact Robert Richards, associate professor of journalism and law, at (814) 863-1900.

Summer sessions offers full slate of activities, events, fun

Films, lectures, concerts, the Central Pennsylvania Festival of the Arts and the State College Centennial Homecoming Weekend highlight Penn State's summer sessions this year at University Park.

Among the special offerings this summer is a free series of three evenings of "Opera for the Movies" — *La Traviata* by Verdi on Wednesday, June 19; *The Magic Flute* by Mozart on Wednesday, July 17; and *Carmen* by Bizet on Wednesday, July 31.

Special public lectures include Dan Abrams, "Court TV" correspondent and commentator on the O.J. Simpson Case for NBC's "Today Show," who will speak on "Covering Trials for Network Television" on Monday, June 10; Jane Smiley, professor of liberal arts and sciences at the University of Iowa and author of *Moo* and *A Thousand Acres*, will talk in Schwab Auditorium on Wednesday, June 26; and Ross Thomas of the University of New England, New South Wales, Australia, will give a lecture on films and their portrayal of school principals on Wednesday, July 17.

tralian film festival will be held in the Carnegie Theatre on Sunday and Monday July 21 and July 22.

In addition, the Summer Sessions offers free dance aerobics, ice skating and an ice cream social in its weekly "Diversions" series, while Music at Noon will be held each Tuesday at the Fisher Plaza. (See the University Park Calendar on page 8).

A calendar of events with discount coupons for ice skating and ice cream "Diversions" events can be picked up at the Summer Sessions office in Spruce Cottage on campus.

Pennsylvania Centre Stage is offering three plays — *Forever Plaid*, *Man of the Monarch*, and *The Baby Blues* — in the Playhouse and Pavilion theatres, and Music at Penns Woods will offer eight chamber and orchestra performances in June and July. The Graduate Student Association is offering a free movie each week. (Check the University Park Calendar on page 8).

The 15th annual Central Pennsylvania Festival of the Arts is scheduled for July 10-14. Children's Day is Wednesday, July 10, and sidewalk sales in town

and on campus are open Thursday, July 11, through Sunday, July 14. In conjunction with the festival, a juried exhibition of fine arts, "Crafts National 30," will be on exhibit June 2 - July 21 in the Visual Arts Building, and "Images '96," an exhibit of festival fine arts, will be displayed in the HUB Galleries June 25 to July 19.

Capping off a full schedule for the summer is the State College Centennial Parade with a return of the Alpha Fire Company on Saturday, Aug. 3. It is part of the Centennial Homecoming on August 2-4, which includes picnics, parties, games and other events for people of all ages.

"We expect about 12,000 students to enroll throughout the summer, including the three-week intervention, which ended May 31, the eight-week session, which begins on June 12, and the six-week session, which begins June 26. The six-and-eight-week sessions end Aug. 7 with summer commencement on Aug. 10," Helen Warren, associate director of the summer session, said.

For more information about classes and special events, contact the Office of Summer Sessions at (814) 863-4174.

The Summer Seminar series featuring faculty in the sciences will be held every Thursday in the Penn State Room at the Nittany Lion Inn, and an Aus-



ROAD SCHOLARS

A S P R I N G T O U R P R O G R A M

On May 15 and 16, University President Spanier took about 70 faculty members on a fast-paced bus tour of sections of the Commonwealth to give them a taste of how involved Penn State is across Pennsylvania and to show them, first-hand, how everyone who is a part of the University impacts the lives of people around the state. Excerpts of one faculty member's impressions of the tour follow:

BY JOHN MENAPACE
Special to the Intercom

I had heard the plan — but did I realize the extent of first-hand involvement? Besides providing new faculty at Penn State an opportunity to chat over a continental breakfast, what significant events could occur while on a Graham Spanier-sponsored "Road Scholars" tour of Pennsylvania.

For one thing, touring Pennsylvania along with President Spanier offered insights into the impact Penn State has on the lives of people—not only locally but also statewide, and nationally, as well as around the world. Spanier's approach to saying "Welcome Aboard!" helped put into broad perspective our responsibilities and duties as teachers. Add to this pleasure that of discovering interests shared in common (academic as well as extracurricular) among colleagues ... and one easily "gets the picture" for hopping aboard Spanier's tour.

As participants on this tour, we discovered that the complex can be made simple. We were able to hear about AND simultaneously witness state government in action while at the state Capitol in Harrisburg; saw health care in action while at the Hershey Medical Center; and viewed agriculture in action while speaking in person with an Amish farmer and his Cooperative Extension agent in Lancaster County.

We saw manufacturing in action while at Carpenter Technology in Reading; and experienced education in action while at the Berks Campus and also at the Police Athletic League in downtown Reading. We were a part of tourism in action while visiting at the Hawk Mountain Sanctuary for birds, as well as while touring the Yuengling Brewery in Pottsville; and we saw the new technology in action at the Pennsylvania College of Technology in Williamsport. I, along with these other tour participants, began to understand the vast impact of this University on the lives of people throughout this Commonwealth.

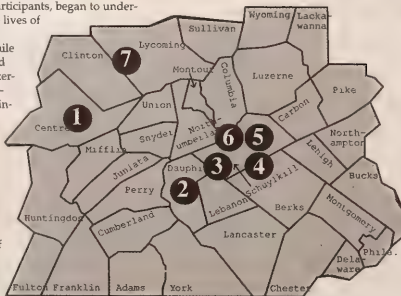
As with a pad of butter on a hot skillet, while doing this tour I was vibrated, whirled onward over our route of travel by a multiplicity of interesting and enlightening events. This next statement, then, is my final impression of a busy itinerary: We gobbled up miles of territory and scads of information and ideas faster than the Pentium chip of a 486 desktop computer moves bits and bytes!

Having experienced first-hand Spanier's remarkably innovative approach to enlightenment concerning Penn State's local, regional, national and international impact, I now see that new approaches in higher education are both an ongoing and a necessary litmus test of the vibrancy of academic life at this University.

John Menapace is an instructor at the Schuylkill Campus, where he teaches rhetoric and composition and technical writing.



Amish country: Some of the sights and sounds in Pennsylvania's Amish country included these four mules.



The tour left State College (1), and made its first stop (2) at the Capitol in Harrisburg; continued with a stop at The Hershey Medical Center (3) and then on to Amish country and the Penn State Berks Campus (4); from there, the group traveled to Hawk Mountain Sanctuary in Schuylkill County (5) and on to Pottsville for a tour of Yuengling Brewery (6); the group headed to the Pennsylvania College of Technology in Williamsport (7) and then back to State College.



PHOTOS BY STEVE TRESSLER/PHOTO/G

(Above left) The group, which required a large haul, gets on board; Faculty member assistant professor in the College of Communications, who duces out the tour, is Shari Roberts, assistant professor in the College of Communications, who duces out the tour. (Above right) President Spanier; state Sen. J. Doyle (Centre County) speaks to the group. The group trudged through the rain and the Hawk Mountain Sanctuary in Keating for 10,000 birds of prey daily this season.

(Above) Participants are treated to a tour of the Pennsylvania College of Technology Corporation in Reading, a successful Pennsylvania firm.

(Right) At Yuengling Brewery in Pot



FROM THE FACULTY

"The tour made me feel really good about Penn State and being a part of this community. It was interesting to see all the ways Penn State is involved across the state."

C. PAOLA FERRERI
assistant professor of fisheries management

"Even though I grew up here, I was surprised and impressed to see how far Penn State is reaching. I made a number of very valuable connections on the trip, both with faculty on the bus and with some of the companies we visited. It's interesting to see how people who work at Penn State and are involved here, still tend to see Penn State in a very narrow sense. This really helped take the blinders off people's eyes."

ANDREW BERGSTEIN
marketing instructor

"I loved the experience. It was such a great opportunity to meet other people in other disciplines. I'm new from California and I got a much better sense of what the higher education system in Pennsylvania is like. Across the state, people don't necessarily look to University Park as Penn State, but they look to the campus in their community to identify with Penn State."

CAROL COLBECK
assistant professor in higher education

"The thing that most impressed me was that everywhere we went, the people were incredibly welcoming. And I was so impressed with how involved Penn State is in all aspects of the state, in different businesses and industries, and such a part of communities. It was truly enlightening to see how involved this University is across Pennsylvania and in the nation."

ROBYN GERENA
research associate, Dairy and Animal Science

"I am amazed at the extent that the Penn State tentacles extend throughout the state in a positive way. It didn't seem as if there was any aspect of the state that Penn State isn't touching; medical, agricultural, industrial, interfacing with state government. It was amazing. Just amazing."

J. THOMAS SCHRIEMPF
senior scientist, ARL



(Above) This roaring lion greeted the tour group at the Penn State Berks Campus; the group enters the Le Jeune Chef (The Young Chef) gourmet restaurant for dinner on May 16 at the Pennsylvania College of Technology. The restaurant is a learning lab for students in the hospitality program; President Spanier talks with Nichoma Wright, a student in baking and pastry arts at Penn College; the group leaves the state Capitol; the tour group receives information during their visit to The Hershey Medical Center.



Learning experience: Thomas Schriempf, senior scientist with the Applied Research Laboratory, and Randall Newnham, assistant professor of political science at the Berks Campus, listen to one of the many presentations on the two-day tour.



CQI CONTINUOUS QUALITY IMPROVEMENT

CQI teams formed

Several CQI teams formed during the spring semester to study and improve processes in their units:

■ **Judicial Affairs/Alcohol Intervention Program (AIP) Access and Communication Process Improvement Team:** Formed to establish or improve systems for routine and systematic communication between the Judicial Affairs Office and the Alcohol Intervention Program. Peg Spear and Don Suli are team sponsors; Doris Guanowsky is leader/facilitator.

■ **University Libraries Acquisitions CQI Team on Serials Claiming:** Working to streamline the serials claiming process that occurs when a library does not receive expected serial or periodical issues and suppliers have to be contacted. The team sponsor is Nancy Stanley; the leader is Beth Watson; and the facilitator is Linda Klimczyk.

■ **Center for Counseling and Psychological Services (CAPS) Wait-Time Team:** Charged with reducing the wait time for seeing a CAPS counselor. Team sponsor is Dennis Heitzmann; leader is Will Wadlington; and Ellen Walker, facilitator.

■ **Internal Communications for Fleet Operations:** This CQI team will improve internal communications within Fleet Operations. Bruce Younklin is the team sponsor; facilitator is Phil Hawkins; the team leader will be elected by the team.

Summer reading

The CQI Center has copies of several new publications recommended for summer reading: *High Performing Colleges* is a discussion of Malcolm Baldrige as a framework for improving higher education. This two-volume set, Volume I: *Theory and Concepts*, and Volume II: *Case and Practice*, is edited and organized by Daniel Seymour, author of two other best sellers on quality. Another book receiving attention is *The Reward and Recognition Process in Total Quality Management*, by Stephen B. Krout (ASQC Quality Press, 1995). Please stop by the CQI Center in 303 Old Main if you would like to borrow these or other books.

For more information about Continuous Quality Improvement, please call Louise Sandmeyer, executive director of the CQI Center, at 863-8721 or e-mail les1@psu.edu.

Both students and industry to benefit from new rotorcraft center

By A'NDREA ELYSE MESSER
Public Information

The sound of a helicopter whirling overhead may draw eyes upward to the sky, but Penn State researchers are keeping their feet on the ground while looking for ways to improve the design, safety and reliability of these unique flying machines.

The recent establishment of one of three National Rotorcraft Centers of Excellence at Penn State has pulled together already existing projects aimed at improving rotorcraft and opened the way for expanding the collaborative government, industry and University research in this area through new projects.

The Rotorcraft Center is a guaranteed three-year, \$1.76 million operation with the potential for an additional two-year extension.

"The Rotorcraft Center program was established in the early 1980s by the United States Army," Edward Smith, assistant professor of aerospace engineering and co-director of the center, said. "Problems involving helicopters were urgent and complex, and it was felt that we needed a critical mass of experts in the area to move research forward."

In 1992, industry joined with the Army to fund the program, but the program is now a collaboration of the Army, industry and NASA, administered out of Ames Research Center by the National Rotorcraft Technology Center. In addition to Penn State's new center, both Georgia Tech and the University of Maryland will continue their rotorcraft centers under the new program.

"The first fixed-wing aircraft was flown by the Wright brothers in 1903, but it took 40 more years for the first flight of a helicopter," Smith said. "The center will tackle some of



Up, up and away

Lyle Long (left) and Edward Smith (right), co-directors of the recently established National Rotorcraft Center of Excellence at Penn State, discuss future plans for the center. The center will offer 12 graduate fellowships to attract high-caliber students.

Photo: Andrea Hurley

the technological problems and barriers that face the rotorcraft industry today."

The center has four major thrust areas—rotor and vehicle dynamics, smart and composite structures, aerodynamics and aerodynamics and drivetrain technology. Quieting the noise—both internal cabin noise which is annoying to passengers and external noise which is annoying to communities—is a focus of the center, as well as structural vibration. The center's researchers also delve into weather-related issues.

Penn State has one of the largest student chapters of the American Helicopter Society in the country.

Pennsylvania is located in the center of a locus of helicopter-related companies including Lord Corp. of Erie, Keystone Helicopter of West Chester, Schweizer Aircraft of Elmira, N.Y., and Advanced Technologies Inc. of Newport News, Va., which have pledged support and are willing to donate flight time and even a helicopter cabin. The center will also work closely with Boeing Helicopters, Sikorsky Aircraft, Bell Helicopters and McDonnell Douglas Helicopter Systems.

The center, which will serve students and industry through education as well as research, will offer 12 graduate fellowships to attract high calibre students.

DuBois Continuing Education program provides foreign language service to region

A DuBois firm now sells its products in Spanish-speaking Mexico; a St. Marys firm hopes to acquire a business in Brazil where Portuguese is the native tongue; and new and potential customers from as far away as China are visiting the region more frequently than ever before. These events and trends underline a growing need for businesses and industries to be able to communicate comfortably with their new customers and employees in their native languages.

According to Jeff Searly, director of Continuing Education at the Penn State DuBois Campus, the campus is

in a position to help. Seven faculty members there have agreed to help provide a Foreign Language Communication Service to the region.

This spring, Searly initiated the Foreign Language Communication Service as a direct result of the growing interaction of local companies with the international market. When approached, Searly's staff will review requests from the business/industrial community and suggest appropriate solutions. He expects services to range from individual consultations to non-credit and for-credit courses.

Language services are currently available in Arabic, Bengali, Chinese, French, Greek, Italian, Latin, Portuguese and Spanish.

Fluency levels range from reading only and conversational only to full fluency. Services include translators, translation of written materials, oral/written language courses and cultural courses.

Additional information about the Foreign Language Communication Service is available by calling Continuing Education at (814) 375-4715 or toll free at (800) 346-ROAR.

Highlight on Undergraduate Education

Interactive classroom gives students valuable insights

By STEVE HEVNER
Penn State Harrisburg

In Robert Garraty's politics of legislation course at Penn State Harrisburg, students get to grill state legislators face to face without leaving the classroom.

Already this semester, state representatives Frank Tulli Jr. (R-Dauphin), Richard Geist (R-Blair) and Ivan Itkin (D-Allegheny) have appeared to discuss issues and answer questions.

The technology making this possible is an interactive video system that uses telephone lines to connect sites. The legislators connect with Garraty's class via a two-way audio and video facility in the Finance Building in Harrisburg.

Garraty conceived the interactive video class as a way to give students "a look behind the walls of the Capitol."

"It's great. I would never have this kind of access to a state legislator if I had to try to get appointments myself," Bob Nace, a student in Garraty's class, said.

Students choose a legislator and an issue to research and prepare a list of questions, which Garraty faxes to the legislator before the class session. During the class, the interactive capability of the system allows the give-and-take of a live interview.

"As legislators, we of course need perspectives from many different sectors of society," Rep. Tulli said. "Students are a big part of that."

And since we make policy about education, we certainly should know how our students feel about those policies."

Students quizzed Rep. Geist, chairman of the House Transportation Committee, about magnetic levitation trains, a system of frictionless rail transportation proposed for Pennsylvania.

"We really hammered away at Geist about the Mag-Lev trains. He was very well prepared," Nace said.

Rep. Geist, who splits time between Harrisburg and his district office in Altoona, said interactive video made it much easier to fit the class into his schedule.

Garraty's class meets in a high-tech-looking room with two 32-inch Sony monitors and a video camera. The remote image — in this case, the legislator — appears on one screen and the classroom on the other. The camera operator can zoom in on the student who is speaking.

"It's not like a lecture," Rep. Tulli said. "It's truly interactive. It's like being in the room together."

More importantly, Garraty said, it gives students access to information they can't get in a textbook and to speakers who, before interactive video, the University couldn't provide, either because of the cost or the difficulty of getting busy legislators to fit the class into their schedules.

"It's a very useful tool in the busy world [legislators] live in and in the distances we are faced with traveling in serving the Commonwealth," Rep. Tulli said.

Petullo of Wyomissing, who will serve in Ireland. Additional recipients may be named later.

Frumkin, who is majoring in media studies, spent last summer in Ireland working with a welfare program which offers food and housing to disadvantaged single-parent families.

"I got to know the culture and the people," she said. "I wouldn't trade the experience for anything."

But that knowledge isn't the only kind of learning that makes the service-learning program valuable.

"In the process of giving service, students realize they have so much to learn from the experience," Marilyn Keat, assistant director of the University Scholars Program and project coordinator, said. They learn that people in other countries view the world differently from themselves and what constitutes "the good life" may vary from culture to culture.

Participants choose the country they want to work in and develop their own volunteer projects. Before traveling abroad, they also do substantial reading on the country to become familiar with its social and cultural landscape.

On their return, each student writes a report on their experiences. Some have also used what they learned abroad as a launching pad for their senior thesis.

News in Brief

Paid volunteers needed

The Laboratory for the Study of Human Ingestive Behavior needs men to participate in a food study involving eating breakfast, lunch and dinner in the lab one day a week for four weeks. If you are a healthy, non-smoking, normal-weight male between ages 23-45, and regularly drink milk you may be eligible to participate. Volunteers will be compensated. If interested, call 863-8482 and ask for the study coordinator. The principal investigator on this study is Barbara J. Rolls, laboratory director.

Upcoming programs

The Center for Adult Learner Services in 323 Boucke Building is offering a number of programs in June to help returning students. For information on any of the following workshops, contact the center at (814) 863-3887.

■ "Macintosh Workshop-Beginners," a program designed to reduce anxiety over computer usage and to introduce learners to word processing, will be held Friday, June 7, from 1:30 to 3:30 p.m. or from 4:30 to 6:30 p.m., in 217 Boucke. The workshop will be presented by Elaine Weirich from the Computer Learning Center. Class size is limited and registration is required. This class is only available to currently or newly enrolled students beginning summer session.

■ "Macintosh Workshop-Internet" is designed to aid participants in learning to use Eudora e-mail system and to help students browse the Internet with Netscape. The session will be held from 4 to 6 p.m. or from 7 to 9 p.m. Sunday, June 9, in 217 Boucke. Elaine Weirich from the Computer Learning Center will lead the workshop. Class size is limited and registration is required. This class is only available to currently or newly enrolled students beginning summer session.

■ Summer Orientation for new adult learners enrolled in summer session is set for 4 to 5 p.m. June 10 in 323 Boucke. An overview of University services, a panel of currently enrolled adult learners and a time for interaction with other students will be featured. Child care and refreshments will be provided. To pre-register, contact the center.

Toastmasters meet

The Happy Valley Toastmasters will meet at noon on Tuesday, June 11 and 25, and July 9 and 23, in 310 Shields Building. Guests are welcome. For more information, call David Panko at 237-2822.

Female volunteers sought

Female volunteers are needed to participate in food studies at the Laboratory for the Study of Human Ingestive Behavior in Henderson Building. One study involves coming to the lab for approximately one hour to complete a computerized questionnaire. A second study requires volunteers to keep a food diary for two weeks, complete computerized questionnaires and eat three meals in the laboratory. Volunteers must be 25-45 years old, able to eat a wide variety of foods, non-smoking and not pregnant or lactating. Both overweight and normal weight females are eligible. If interested, please call (814) 863-8482 and ask for Daria or Emily. All volunteers will be compensated for their time. The principal investigator on this study is Barbara J. Rolls, laboratory

University Scholars Program expands learning experience through travel

By JASON PRUCEY
Public Information

By promoting international service-learning, the University Scholars Program has enabled students like Jillian Frumkin, a sophomore from Buffalo Grove, Ill., gain new experiences in far off corners of the world, while furthering their academic studies.

Whether building a basketball court in a poor village of Mexico or constructing houses in Budapest, each year about five honors students couple volunteer work with education to learn in regions throughout the world.

Although University scholars have used the program for about a decade, it became more accessible a few years ago when a Penn State alumnus, devoted to promoting international understanding, began giving gifts to the scholars program. The money is used to help pay students' airfare expenses, which in many cases is the program's only major cost.

Recipients for this summer are: Elizabeth Andrews of Carlisle, who will serve in the Czech Republic; Eric Bond of Malvern, who will serve in Amsterdam; Matthew Doty of Wescosville, who will serve in Germany; Marci Gleason of Pittsburgh, who will serve in Germany; and Jennifer

Awards

Several recognized for efforts to prevent alcohol, drug abuse

A combination of 11 Penn State community members and organizations were recognized for their outstanding contributions to their community in the prevention of alcohol, tobacco and other drug abuse. Those receiving the award were:

■ **University Park staff member Lawrence Bair** for his work with Centre County Chemical People, a local grass roots group with provides education and alternative activities as a means of prevention. His work covers five area school districts and drop-in centers;

■ **Jennifer Galantini**, Penn State Worthington Scranton student, for her dedication to the Health Club, which sponsored an alcohol-free "All-U-Day" tailgating party to encourage students going to football games not to drink and drive.

■ **The Health Works Peer Education Program** for its commitment to improving the awareness of alcohol issues;

■ **University Park staff member Brian Hutchison** for his work in creating the Towers Cafe, an alternative activity to the alcohol and drug environment;

■ **Penn State DuBois' Campus newspaper, The Lion's Tale**, for highlighting drug and alcohol abuse issues and recovery information in the paper, often free of charge;

■ **University Park faculty members Beverly S. Mahoney and Mary E. Nicholson** for their extensive research concerning the use of alcohol and behavior.

■ **The Nittany Lion Inn's Server TIPS Training Program** for educating servers about the issues of intoxication and liability.

■ **David Stormer**, assistant vice president for Safety and Environmental Services, for initiating the creation of a letter sent to all 20-year-old students prior to their 21st birthday which reminds students to enjoy their birthday, but to be aware of the problems associated with the overuse of alcohol and the responsibilities of being 21.

■ **University Park faculty member John Swisher** for his many years of service in the prevention and counseling fields. In addition, he serves as the director of Chemical Dependency Counselor Education.

■ **Police Service Supervisor Delmar Woodring** for conducting alcohol awareness and driving under the influence programs for high school students.

Hazleton cites assistant professor for outstanding teaching activities

The Teaching Excellence Award, given by the Hazleton Educational Council for outstanding teaching activities at the Penn State Hazleton Campus, has been awarded to **Dianna Bourke**, assistant professor of biology.

As one of the leaders in innovation in teaching at the campus, her use of computers in teaching biology enables students to both participate in the lecture and, through the computer, visually see the process or experiment that is the subject of the lecture.

In 1994, with other women faculty in mathematics and science, she helped organize the campus WiSEST Women organization for students in math and science to provide mentoring and other informal contacts with faculty and women in science.

Harrisburg Web site garners national honors

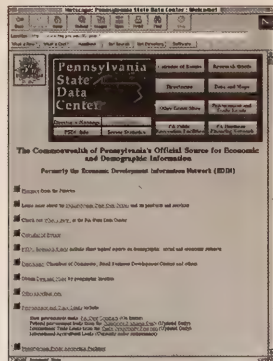
A Penn State Harrisburg World Wide Web home page has been singled out for national honors.

The Pennsylvania State Data Center home page is listed among the top 5 percent of all the locations in the nation.

The Data Center has been named to the "Top 5 Percent of the Web" catalog listing by Point, a free service which rates and reviews home pages on the Web.

The State Data Center home page, which is nearing 250,000 requests for information since it became active less than a year ago, is a computerized information and communications tool designed to assist Pennsylvania's economic and business initiatives.

The Data Center can be accessed through the Penn State Harrisburg home page at <http://www.hbg.psu.edu>.



Associate dean commended for service to students

Howard E. Way III, associate dean for Undergraduate Education, received the Outstanding Service to Developmental Education Students award from the Pennsylvania Association of Developmental Educators.

Way, also director of the Ronald E. McNair Post Baccalaureate Achievement Program, is responsible for coordinating academic assistance and learning support programs for the University, including seven federally funded Department of Education programs, the Educational

Opportunity Programs and the University Learning Resource Centers at University Park. He also oversees the Comprehensive Studies Program, a state-funded program for low-income students.

Since 1989, Way and academic assistance program personnel have successfully competed for federal and private foundation grants totaling more than \$8.5 million — or about \$2 million annually — that enroll and help students from underrepresented and disadvantaged groups grad-

uate from post-secondary education.

The Pennsylvania Association of Developmental Educators is an advocate of equal educational opportunity for all people who have the potential and the desire to achieve in post-secondary education. It promotes education and understanding about developmental education among the public and educators in higher education, and serves as a forum for discussion and program support to developmental educators.

Recycling efforts gain "unique ideas" award

Recycling efforts undertaken at Penn State home football games have garnered the University a Commercial Recycling Award in the "unique ideas" category from the State Department of Environmental Protection (DEP).

The University was nominated for the honor by Centre County recycling coordinator **Joanne Shafer** for recycling glass, aluminum and plastic containers

collected last fall at Beaver Stadium during home games.

Local Boy Scout and Girl Scout volunteers staffed stations inside the stadium and nearby parking lots. The program increased recycling at the games from 4 percent to 66 percent and the \$11,019 profit from selling the recyclables went to the local United Way.

Pediatrics professor named "miracle maker"

Dr. **Mark Widome**, professor of pediatrics at The Hershey Medical Center, is the recipient of the 1996 "Miracle Maker Award" presented by Whitehall-Robins, the maker of Robitussin and Dimetapp medicine.

The award, given for the third consecutive year to a physician at a Children's Miracle Network-affiliated hospital, recognizes physicians who have made significant contributions to children's health care. Pediatricians are selected as "miracle makers" by members of the hospital's medical staff.

Dr. Widome is being honored for his leadership in accident/injury prevention and for his compassion to families and children.

Awards

Several earn awards for outstanding teaching

Assistant professor cited

Ronald Bettig, assistant professor of communications, has captured the fifth annual Excellence in Teaching Award sponsored by the College of Communications' Constituent Alumni Society.

The award acknowledges and honors outstanding faculty for exemplary contributions and overall dedication to the art of teaching. Nominees are judged on overall competence in the subject, ability to inspire students, participation in extra curricular activities, and success in improving the tools and conditions of teaching.

Bettig's responsibilities include teaching political economy of communication and mass media and the public. His research interests include intellectual property, new communications technology and the structure of communications industries. He received his B.A. from the University of California and his Ph.D. from the University of Illinois.

Smeal salutes program director

David E. Butt, director of the MBA Academic Communications Program, has been named the winner of the 1996 Dillwynne V. Paiste III Teaching Award in The Smeal College.

Butt, who has been frequently recognized by Smeal MBAs for his outstanding teaching, leads the program's communications component, a highly distinctive feature of the MBA program for 20 years. He is a specialist in applied communications, organizational and group. Butt, also an associate professor of business administration, holds a bachelor's degree from the State University of New York, and master's and D.E.D. degrees from Penn State.

The Paiste award was created through an endowment made by the late Dillwynne Paiste, a 1931 Penn State liberal arts alumnus. The award recognizes outstanding teaching or instructional potential among the Smeal faculty. Winners receive a grant to be used to further their contributions to teaching.

Allentown honors two

Barbara Cantalupo, associate professor of English, and Janice Pope, instructor of theatre, have each been awarded the Penn State Allentown Campus Teaching Excellence Award for 1996.

In addition to Cantalupo's research and teaching, she serves as adviser to the honor's club. Pope also is the director of university relations and serves as the adviser to the performing arts club.

Three recognized at Penn College

Three faculty members at Pennsylvania College of Technology have been honored with awards for their outstanding and distinguished teaching.

Ned S. Coates, associate professor of English, has been awarded "Master Teacher Award" — the highest level of college recognition for faculty.

Ralph A. Horne, professor of drafting technology, and Richard L. Druckenmiller, instructor of building construction technology, have both received the "Excellence in Teaching Award."

Coates joined the college in 1967 as an instructor of English, and was later promoted to assistant professor in 1969 and associate professor in 1983. He earned a bachelor of arts degree in 1962 from Susquehanna University and a master of arts degree in 1967 from the University of Arkansas, where he also taught part time.

Horne joined the college in 1983 as division director of construction technology and, in 1990, was promoted to assistant dean of construction and design technology. In 1991, he elected to return to faculty as a professor of drafting technology. Horne earned his bachelor and master of science degrees in industrial education in 1970 and 1971, respectively, from the University of Tennessee. He completed a doctor of education degree in vocational technical education at Virginia Polytechnic Institute in 1977.

Earlier in his teaching career, he taught at Virginia Tech, Chesapeake College, Rappahannock

Community College and a high school in Knoxville, Tenn.

Druckenmiller joined Penn College in 1990 as an instructor in building construction technology. He earned a bachelor of science degree in secondary education from the former Millersville State College in 1974. Before joining the college, Druckenmiller was sole proprietor of Hartwood Carpentry for a number of years and worked as a production supervisor for GTE Sylvania, in Montoursville, and Penn Wieropre, in Muncy.

The Distinguished Teaching Awards are sponsored by the Penn College Foundation. Since 1982, 44 full-time faculty members have been honored.

Two lauded at Mont Alto

Two Penn State Mont Alto Campus faculty members were recently honored for excellence in teaching and advising.

John Long, instructor of biology, received the Martha A. Fisher Award for Teaching Excellence.

Lauraine Hawkins, assistant professor of biology, was honored with the Student Government Association Award for Excellence in Advising. To be eligible for both awards, the instructor must teach at least four classes per year and be nominated by a Mont Alto Campus student.

Society taps associate professor

John Sokol, associate professor of engineering at the Penn State Fayette Campus, has received the 1996 Outstanding Teaching Award from the Penn State Engineering Society (PSES), an engineering alumni constituent society. The award is given annually to recognize outstanding engineering educators for excellence in teaching and for contributions to the art of teaching.

Sokol primarily teaches courses in electrical engineering technology.

Two receive inaugural award for outstanding service to Libraries

The first two recipients of the Margaret Knoll Spangler Oliver Award, established in 1995 by Ronald and Eleanor Smith and Robert Oliver in memory of Margaret Oliver, a former assistant librarian at Pattee Library, are: Judith Hewes, a member of the cataloging management team; and Jim Petro Sr., building services coordinator. Both have been honored for their outstanding service and deep commitment to the Libraries through their positive attitude, excellent performance, willingness to take on responsibility, and service above and beyond the call of duty.

Hewes joined the Libraries in 1974 as a clerk in interlibrary loan. Over the years she has participated on many committees within organizations such as the American Library Association, served as a Continuous Quality Improvement facilitator and organized activities for the Child at Work Day pro-



Judith Hewes



Jim Petro Sr.

gram. She is a graduate of the Louisiana State University with a bachelor of arts degree in art and English literature.

Petro joined the Libraries in 1967. He serves as chairman of the Libraries Safety Committee, the Libraries' representative to the University Safety Council, facilitator for safety workshops, key custodian, coordinator of the Libraries recycling program, member of the Libraries Ergonomic Steering Committee, and liaison with the Office of Physical Plant, Environmental Health and Safety, and Police Services.

Harrisburg YWCA pays tribute to director

The professional accomplishments of Barbara A. Thompson have earned the applause of the YWCA of Greater Harrisburg.

Thompson, the director of Penn State's Harrisburg Area Community Recruitment Center, is one of this year's recipients of the YMCA TWIN Award.

"TWIN" is an acronym for Tribute to Women and Industry, an awards event and career program of the YWCA of Greater Harrisburg. TWIN honors outstanding women who have made significant contributions in managerial, professional and executive positions.

As director of the recruitment center, Thompson is responsible for representing Penn State in the Harrisburg area and making the community aware of the educational opportunities it provides.

In recognition of her professional and personal achievements, she has been listed in *Outstanding Young Women in America*. She serves as a school director in the Central Dauphin School District, as first vice president of the Hemlock Girl Scout Council and as educational chair for Alpha Kappa Alpha sorority.

Partings

DuBois academic affairs head to retire

Mary M. Dupuis, director of academic affairs at the Penn State DuBois Campus, will retire from the University following a 29-year career as an educator and administrator, effective Aug. 1.

Dupuis arrived at DuBois Campus in 1992 as the acting director of academic affairs. In 1993, she accepted a permanent appointment to the position and was responsible for directing the work of the faculty, overseeing the academic programs offered at the campus, and ensuring that adequate support was available for students as well as faculty.

During her four years at the campus, she has worked to strengthen several academic programs, notably the baccalaureate degree program in letters, arts and sciences; and the human development and family studies program; implemented the materials engineering technology program; and overseen the development of two new associate degree programs.

In addition to her work in the academic area, Dupuis has contributed to the development of a supportive, collaborative climate at the campus. Her efforts have focused on motivating and mentoring female faculty, staff and students, continuing work she began as chair of the Penn State Commission for Women and in the University Faculty Senate.

Dupuis holds a B.A. in English from George Washington University, an M.A. in English from Purdue University and a Ph.D. in secondary education from Penn State. She joined the Penn State faculty in 1967 as an instructor in the Department of Secondary Education and currently holds the academic rank of professor of education. She also has served as assistant professor, associate professor, coordinator of secondary education, director of teacher education and associate dean for undergraduate programs in the College of Education. She served as administrative fellow in the Office of Finance and Operations before coming to DuBois.

Her additional professional activities include serving as a visiting professor, publishing and/or presenting four books and many professional articles, chairing numerous committees and serving as a professional educational consultant.

Dupuis holds memberships in six honor societies and more than a dozen professional organizations, serving as president of both the Pennsylvania Association of Colleges and Teacher Educators and the Keystone State Reading Association.

For outstanding service to the community, she received the Outstanding Woman Award from the State College Branch of AAUW; the Barash Award for Community Service and the McKay Donkin Award for continuing contributions to the "economic, physical and mental or social welfare of the faculty."



Mary M. Dupuis

Mont Alto CEO to leave July 12 for position at Temple Ambler

Corrinne A. Caldwell, Penn State Mont Alto's campus executive officer for the past nine years, has accepted a position as vice president and dean of Temple University at the Ambler Campus in Montgomery County. Her tenure as CEO will end July 12.

Under Caldwell's administration, Mont Alto has grown from a campus of less than 800, known mostly for its historic connection to Pennsylvania forestry, to a thriving provider of higher education in a broad array of programs for a residential and commuter campus of nearly 1,300.

Accomplishments during her tenure include:

- Addition of associate degrees in nursing, occupational therapy and human development and family studies to the previously offered two-year degrees in forest technology, business administration, physical therapy and letters, arts and sciences;
- Construction of the \$4 million Multipurpose Activity Center and a new bookstore and continuing education center, now in progress;
- Successful completion of the campus' first capital campaign with the renovation of historic Conklin Hall as a student/community center;
- Expansion of continuing education outreach to industries and institutions.



Corrinne A. Caldwell

■ Three-fourths completion of a 10-year, \$1 million scholarship endowment effort, now in its fourth year.

Caldwell came to Penn State after six years as dean of mathematics, physical sciences and engineering technologies at the Community College of Philadelphia. A native of Vancouver, B.C., she received a B.A. in psychology and English and an M.S. in social work from the University of British Columbia; she earned her Ph.D. in higher education at the University of Pennsylvania.

At Mont Alto, she continued her research and writing, focusing on rural students' participation in higher education, accreditation and gender-equity issues in leadership. She held affiliate status as a faculty member in the College of Education and the Graduate School of Penn State, and has served on many University-wide committees including the presidential search committee and the University Planning Committee. Her community commitments included memberships on the Waynesboro Hospital Board, Eastern Seals Executive Board of Advisers, The Franklin County Health Care Consortium, Chambersburg 2000, Waynesboro Rotary Club and the Valley-bank Board of Advisers; she also served as treasurer of the Summit Health Alliance.

Professor retires with emerita rank

Isabel F. Knight, professor of history whose area of specialization is European intellectual history, retired with emerita rank in January.

Her book, *The Geometric Spirit: The Abbe de Condillac and the French Enlightenment*, was published by Yale University Press in 1968.

Her later work focused on the history of psychology, especially Freudian thought.

Professor Knight served the department, college and University in many capacities. She worked to design and initiate the Liberal Arts Freshman Seminar Program, and served as the history department's undergraduate officer, graduate officer and associate head.

Professor Knight received a B.A. in political science in 1951 and an M.A. in history in 1958 from the University of California at Los Angeles. She joined Penn State's history department in 1965 after receiving a Ph.D. in history from Yale University in 1964.



Isabel F. Knight

Assistant professor of forestry taught at Mont Alto 22 years

James Hale, assistant professor of forestry at the Penn State Mont Alto Campus, retired after 22 years of service at the University.

While teaching at Mont Alto, Hale enjoyed instructing classes in silviculture — the art of producing and tending trees and plants. He also worked with the director of academic affairs to develop "Adventures in Learning," a program that allows seventh-graders to experience college.

Before coming to Mont Alto, Hale attended the University of Michigan and worked in private industry.

In his retirement, he plans to visit Alaska and continue his camping trips to national parks. He and his wife, Gene Rebecca, live in Waynesboro and have one son.



James Hale

Partings

Distinguished professor emeritus leaves after 40 years of University service

Ingong Ham, distinguished professor emeritus of industrial engineering, retired after nearly 40 years at Penn State.

Ham is an internationally recognized expert in his field, received a B.Eng. from Seoul National University, Korea, in 1948, an M.S. from the University of Nebraska in 1956 and a Ph.D. from the University of Wisconsin in 1958, all in mechanical engineering. He assumed the position of assistant professor at Penn State after completing his doctorate in 1958.

In addition to his appointment as distinguished professor, Ham served as FANUC professor of industrial engineering from 1989-1992 and was director of the Manufacturing Research Center from 1990-1992. He is a Fellow of the American Society of Mechanical Engineers and the Institute of Industrial Engineers. In 1987, he was installed as a Fellow of the Society of Manufacturing Engineers (SME).



Ingong Ham

Ham is a member of the North American Manufacturing Research Institute, having served as president from 1985-1986, and the International Institution for Production Engineering Research, having served as president from 1994-1995.

In 1980, he was awarded a Fulbright professorship to the USSR, where he was based at the Georgia Institute of Technology. In 1989, he spent five months on sabbatical in Japan as chair/visiting professor to the University of Tokyo's Research Center for Advanced Science and Technology. In 1995, he was awarded the first Distinguished Service Award by the Korean Society of Mechanical Engineering.

Ham also has been recognized with honorary and advisory professorships at several universities and has won numerous awards, including the Penn State Engineering Society's excellent teaching and outstanding research awards.

Assistant professor served for 25 years

Bernie Guss, associate professor in the School of Engineering Technology and Commonwealth Engineering at the Penn State New Kensington Campus, has retired with emeritus rank after 25 years of service.

Guss received a B.S. in math from South Dakota State University. He retired from the U.S. Navy in 1969 with the rank of commander. He earned his M.S. in engineering from Penn State in 1970 and began teaching at the New Kensington Campus that same year as an instructor in the general engineering department. He became an assistant professor in 1975 and an associate professor in 1979.

In his retirement, Guss will reside in Lower Burrell, Pa., with his wife, Geraldine. He remains active in the Institute of Electrical and Electronic Engineers and the American Society for Engineering Education and to a great deal of traveling. The Guss' have two daughters, both Penn State graduates, and five grandchildren.

Several retire from University after many years of service

Glenn R. Brooks, grants and contracts accountant, Corporate Controller's Office, retired Jan. 1 after 38 years of service at the University.

Dale E. Albright, maintenance worker, Utilities-Piping, Office of Physical Plant, retired Jan. 6. Hired Nov. 2, 1965, he worked at the University for 30 years.

Miriam J. Bean, staff assistant IV, The Hershey Medical Center, from July 25, 1983, to March 30.

Glenn R. Brooks, grants and contracts accountant in the Corporate Controller's Office, retired Jan. 1 after 38 years of service at the University.

Harry F. Butts, residence hall project worker, Housing and Food Services, from May 3, 1977, to March 30.

Faye E. Davy, staff assistant V, Intercollegiate Athletics, from April 10, 1985, to April 1.

Neil E. Dowlin, publications editor, College of Agricultural Sciences, retired Jan. 1 after 28 years of service at the University.

Leanne J. Driscoll, nurse supervisor, Student Affairs, from Oct. 1, 1976, to May 1.

Betty J. Frazee, staff assistant VI, Applied Research Laboratory, from May 28, 1985, to April 1.

Gordon N. Fleming, professor of physics, Eberly College of Science,

retired Jan. 1 with emeritus status after 30 years of service at the University.

Allen W. Harpster, janitorial worker, Office of Physical Plant, from May 8, 1978, to March 30.

Claire Hirschfield, professor of history at the Penn State Abington-Ogontz Campus since Sept. 1, 1966, retired with emeritus status on Jan. 1.

Ralph L. Homan, barn worker-milker in the College of Agricultural Sciences, retired April 13 after 11 years of service at the University.

G. William Hughes, cinematographer/videographer, WPSX TV, retired Jan. 1 after 27 years of service at the University.

Jon Jones, manager of Housing and Food Services at the Penn State Mont Alto Campus, has retired after 14 years of service at the University.

Joseph J. Kockelmans, professor of philosophy in the College of the Liberal Arts, from June 16, 1968. Retired with emeritus status on Jan. 1.

Helen A. Koslosky, attending nurse, The Hershey Medical Center, from Sept. 13, 1976, to April 1.

Susan D. McGovern, residence hall/utility worker, Housing and Food Services, from March 30, 1982, to March 30.

Rachel L. Meyer, residence hall work-

er, Housing and Food Services, from Jan. 3, 1977, to April 27.

Roy A. Olafson, professor of chemistry in the Eberly College of Science, retired Jan. 1 with emeritus status after 30 years of service at the University.

Ivan M. Moyer Jr., instructor of individual and family studies at the Penn State Delaware County Campus, retired Jan. 1 after 25 years of service at the University. He began working at Penn State on Nov. 16, 1970.

Earl J. Partenheimer, professor of agricultural economics and rural sociology in the College of Agricultural Sciences, retired with emeritus status Jan. 1 after 28 years of service at the University.

Thomas S. Pugh, maintenance worker, Utility, in the Office of Physical Plant, from Aug. 9, 1976, to March 30.

Helen G. Robison, food preparator A, Housing and Food Services, from Jan. 15, 1983, to May 4.

Patricia L. Sanders, associate professor of plant pathology in the College of Agricultural Sciences, retired Jan. 1 after 22 years of service at the University.

Charles A. Smith, administrative computing security officer, Computer and Information Systems, from Feb. 12, 1973, to Jan. 18.

Evelyn D. Smith, library assistant II,

University Libraries, retired April 1 after 14 years of service at the University.

George W. Smith, airport attendant, Business Services, from Nov. 19, 1979, to May 18.

Betty J. Soergel, assistant to the director of Student Affairs at the Penn State Altoona Campus, from Sept. 2, 1980, to April 1.

Lois L. Stouffer, staff assistant VI, The Hershey Medical Center, from June 25, 1984, to March 30.

Evelyn M. Walck, staff assistant VI in the College of Health and Human Development, from Oct. 3, 1977, to April 1.

Marijane Watson, staff assistant VI, Research and Graduate School, retired Jan. 1 after 23 years of service at the University.

Doris L. Wesley, staff assistant V at the Penn State Delaware County Campus, from Oct. 13, 1980, to April 1.

Frederick G. Welch, professor of vocational industrial education in the College of Education, retired with emeritus status Jan. 8 after 25 years of service at the University. He began working for Penn State on July 1, 1970.

Shirley E. Wright, maintenance worker, Utility, at the Abington-Ogontz Campus, from May 13, 1985, to March 30.

Appointments

DuBois Campus appoints director of academic affairs

Claudia Limbert has been appointed director of academic affairs at the Penn State DuBois Campus. She replaces Mary Dupuis, who is retiring Aug. 1. (See story on page 16)

The director of academic affairs is responsible for directing the work of the faculty, overseeing the academic programs and courses offered at the campus and ensuring that adequate support is available for students as well as faculty.

Limbert, associate professor of English and women's studies, is currently serving as an administrative Fellow in the office of Robert E. Dunham, vice president and dean of the Commonwealth Educational System. Before that, she taught at the Penn State Shenango Campus, where she was named "Teacher of the Year" by the student body and served as both Faculty Congress chair and campus ombudsman. She plans to continue teaching on a limited basis when she assumes her administrative duties at DuBois.

Limbert holds a bachelor's degree from Bethel College in Kansas, along with a master's degree in creative writing and a Ph.D. in English literature, both from Boston University. She serves on the editorial board of *Initiatives*, the journal of the National Association of Women in Education, and has just completed a term on the executive board of the Northeast Modern Language Association. She has twice presented keynote addresses at the International Conference of Women in Education.

In addition to numerous scholarly publications and conference presentations, Limbert has published short stories, poems and creative non-fiction pieces in literary and commercial publications.



Claudia Limbert

Great Valley names director of business and financial services

Sally Mahon has been named director of business and financial services at the Penn State Great Valley Campus.

Mahon comes to the graduate campus from Bucks County Community College, where she was associate dean of administrative services since 1993. Before that, she held various positions at the college including assistant dean of administration, director of physical plant and director of financial aid.

Mahon earned an Ed.D. in occupational/technical education from Temple University, and a master's degree in student personnel services and a bachelor's degree in psychology from the University of Vermont.



Sally Mahon

Hazleton Campus appoints acting campus executive officer

David P. Orbin, assistant professor of biology at Penn State Hazleton, has been appointed acting campus executive officer for the campus, effective July 1.

Former CEO James J. Staudenmeier retired this winter, and John Leathers, associate vice president for the Commonwealth Educational System, has been overseeing the campus administration since then.

Orbin joined Penn State in 1970 at the New Kensington Campus. He joined the Hazleton faculty the following year.

He has served as president of the Faculty General Assembly six times, most recently during the last academic year, has served on all of the campus strategic planning committees and is a member of the Campus Campaign Steering Committee.

In the classroom, he has been a pioneer in the use of computers and, with other faculty, developed a college survival skills class for freshmen.

In addition to teaching microbiology and environmental science, he also team teaches a sequence of sophomore biology courses and helped coordinate a program for junior high school students.

He is just completing a year in the Leadership Hazleton program, chairs the Conyngham Borough Zoning Hearing Board and is active in a number of community service and church organizations.

Originally from Greensburg, Pa., Orbin is a graduate of Otterbein College in Ohio and received a Ph.D. in biology from Auburn University in Alabama.



David P. Orbin

McKeesport Campus welcomes instructional design specialist

Richard S. Pastore of Clairton has been appointed instructional design specialist for the Penn State McKeesport Campus. He is responsible for instructional design and multimedia production, working directly with faculty.

Pastore will manage the activities of the multimedia development center and train faculty and student assistants on multimedia software and peripherals. He will consult on the design and structure of technology supported active and collaborative student learning. In addition, he will help create multimedia learning resources to facilitate course design.

Pastore holds an associate of science degree in business administration from Community College of Allegheny County, a bachelor of science degree in social sciences from Penn State and a master of science degree in instructional technology from Bloomsburg University.

Before joining the Penn State McKeesport staff, he was a training analyst and lead instructional designer since 1989 with ECC International Corp. in Wayne, Pa.

BOOK SHELF

West Educational Publishing has just released the sixth edition of *The Management of Business Logistics*, co-authored by John J. Coyle, professor of business logistics in The Smear College of Business Administration. It was written with Edward J. Bardi, professor of business logistics at the University of Toledo, and C. John Langley, the Dove Chair of Logistics at the University of Tennessee. Building on the strengths of previous versions of the book, the sixth edition contains new examples and vignettes, plus important coverage of the supply chain, network design, leading-edge strategies in logistics, and the latest on carrier pricing and transportation regulations. Coyle also is the executive

director of The Smear College of Business Center for Logistics Research.

Alan Michael Parker, assistant professor of English and creative writing at Penn State Erie, The Behrend College, has published a book, *The Routledge Anthology of Cross-Gendered Verse*, through Routledge Books of London and New York. The book, which Parker co-edited with Mark Willhardt of The University of St. Thomas, presents seven centuries of poems in which women write in the voice of men, and men write in the voice of women, as well as a critical introduction.

Terry J. Peavler, associate dean for

undergraduate studies in the College of the Liberal Arts and professor of Spanish, is co-editor of a new volume of essays, *Structures of Power: Essays on Twentieth Century Spanish American Fiction*, published by the State University of New York Press. The collection includes essays on a wide range of topics from the literature of dictatorship to the dictatorship of literature, from rather traditional treatments of socio-political concerns to innovative discussions of the powers of literary discourse and its ramifications in Spanish-American literature. In addition to co-editing the volume, Peavler co-authored the introduction, translated the essay "The Underlying Currents of Caciquismo in the Narratives of Juan Rulfo," by Jose Carlos Gonzalez Boixo, and authored the essay "Cabrera Infante's Under-ton."

R. Alan Price, associate professor of English at the Penn State Hazleton Campus, is author of *The End of the Age of Innocence*. The book, published by St. Martin's Press, documents Edith Whar-

ton's activities as fund-raiser, philanthropist, propagandist and political activist during World War I, and draws on unpublished letters and archival materials in Europe and the United States.

The End of the Age of Innocence covers the period of time at the beginning of World War I when Edith Wharton, viewing any possible German victory as "the crash of civilization," became involved in the allied cause. She wrote stories from the front and organized relief efforts in Paris. Before the end of the first year of the war, she had created organizations and raised funds for three major war charities that bore her name. As the war waged on, she continued to write magazine articles, organize fund-raising schemes and rally the world's best painters, composers and writers to donate money for refugees and to sway American popular opinion.

The End of the Age of Innocence is the latest work that Price has done about Edith Wharton; in 1993 he co-edited, with Katherine Joslin, *Wretched Exotic: Essays on Edith Wharton in Europe*.

Falling cholesterol may signal death

By SCOTT TURNER
Public Information

A new study draws the line on America's obsession with lowering its cholesterol.

The study shows that low or rapidly declining cholesterol levels signals impending death among frail elderly nursing home residents.

The finding breaks the common notion that everyone must lower their cholesterol, **Toni Miles**, one of the study's authors and director of the Center for Special Populations, said.

"The country may be obsessed with low-cholesterol diets, but the last thing we need to worry about in frail populations is trying to lower their cholesterol," Miles said.

The study also offers medical and health professionals a trustworthy marker of imminent death in feeble senior citizens: a steep decline in cholesterol levels.

"The medical community looks for reliable predictors of mortality," Miles said. "No special tests are needed to check someone's cholesterol. This procedure can take place annually in a nursing home."

Lead author of the study is **Mark Grant**, West Suburban Hospital Family Practice Residency, Oak Park, Ill. The second author is **Zdzislaw Piotrowski**.

In the study, the faster the cholesterol decline, the greater the risk of death. Accounting for factors such as



Toni Miles' research has shown that lower cholesterol levels are not desirable for frail people. On the contrary, she has found that rapidly declining cholesterol rates can signal impending death among the frail elderly.

Photo: Greg Grieco

sex and age, the study showed that feeble elderly nursing home residents were six times more likely to die within the next year if their cholesterol level dropped at least 45 milligrams during the previous year compared to residents with no declines in cholesterol.

The researchers found that being on a feeding tube increased the odds 14 times that someone in the study with a declining cholesterol level would die within the next year.

Although cholesterol data may signal imminent death, it's not a cause of death, Miles said. A drop in cholesterol is a symptom of infection, inflammation, cancer or other illness.

The study builds upon past research that links cholesterol decline and impending death in frail elderly but looks at a more diverse population than previous research, Miles said.

Substance in garlic slows growth of lung cancer cells

By TINA M HAY
Health and Human Development

A compound in garlic slows the spread of human lung cancer cells in culture," John Milner, professor and head of the Department of Nutrition and Health and Human Development.

Kazuko Sakamoto, a research associate in nutrition, reported that diallyl trisulfide (DATS), a compound in processed garlic oil, slowed the growth of — or even killed — human lung tumor cells grown in culture. Lung cancer is the leading cause of cancer death in the United States.

"We found DATS to be extremely effective in reducing the growth of human lung carcinoma cells in culture," John Milner, professor and head of the Department of Nutrition and a co-researcher on the study, said.

The effectiveness of DATS was comparable to that of 5-fluorouracil, a widely used chemotherapy agent, Milner said. In addition, while DATS was effective against the lung cancer cells, it was considerably less toxic to healthy cells.

"The results have profound impli-

Rosemary may have anti-cancer properties

Ordinary rosemary — the commonly used cooking spice — appears to help prevent breast cancer in laboratory rats, according to a study in the College of Health and Human Development.

Rosemary interfered with cancer's initiation phase, or the transformation of normal cells to cancerous ones. The study was directed by John Milner, professor and head of the Department of Nutrition.

The researchers also found that rosemary's effectiveness against tumor formation increased with the amount of unsaturated fat in the diet.

Other researchers were **Harunobu Amagase**, a former research associate in Milner's laboratory; research associate **Kazuko Sakamoto**; and former undergraduate student **Ellen Segal**.

— TINA M HAY

cations, both for diet and for drug therapy," Milner said.

The findings are the latest in a growing body of evidence that garlic can suppress human cancer cells, both in laboratory cultures and in test animals.

In previous studies, Milner and his colleagues reported that two other compounds in garlic — S-allylcysteine or SAC, and diallyl disulfide or DADS — have anti-carcinogenic properties as well. They found that SAC interfered with the formation of breast

tumor cells in rats, while DADS inhibited the growth of human cancer cells (colon, skin, and lung) grown in lab cultures. The new study is especially promising because it found DATS to be 10 times as effective as DADS.

"Clearly we are learning that there is more than one mechanism by which garlic can reduce cancer," Milner said. "Our studies and others have shown that compounds in garlic can block the initiation phase of cancer as well as the subsequent promotion phase."

FROM THE EXPERTS

Facts and hints from Penn States
in the know.

It'll drive you buggy

If you've spent a lot of time outdoors this spring, you've probably noticed you have lots of unwanted company.

According to **Charles Pitts**, professor of entomology, the wet winter we had means higher mosquito populations now.

"With the precipitation we've had over the past four months, many areas have temporary pools due to flooding and snow melt," Pitts said. "Mosquitoes lay their eggs in or near water, so conditions are right for a mosquito population explosion."

The proliferation of the pests can be more than an itchy nuisance. Since some mosquitoes can transmit eastern equine encephalitis or dog heart worm, there may be increased risk of your pets contracting these diseases.

Making sure there's no standing water on your property should reduce the number of mosquitoes in your back yard, Pitts said.

Finally, if you use mosquito-killing foggers, do it in the evening when the mosquitoes are active.

Travel tips

If you have asthma or other allergic diseases and are planning to travel this summer, allergist **Timothy O. Craig**, associate professor of medicine at The Hershey Medical Center, recommends you make certain preparations.

■ First, check what kind of pollens are in the area you are visiting. If something you are allergic to is in full bloom, you may want to postpone your trip or go somewhere else.

■ Avoid activities such as scuba diving if you have active asthma or hay fever.

■ Carry extra medication and written prescriptions, and keep your medications well labeled and protected.

■ Find out what type of medical assistance is available where you're going.

■ Make sure you have received all vaccines and prophylactic medications necessary in the area you are traveling, and that none cross-react with medications you take routinely.

■ Be aware that foods may have different names in foreign countries. If you have food allergies, make sure you know what you're eating.

■ If you are allergic to foods or stinging insects, bring at least two doses of epinephrine with you.



ATHLETICS

A regular column provided by Intercollegiate Athletics

Date with ESPN

Off their 21-7 season and second-place finish in the Big Ten basketball championship chase, the Nittany Lions have been chosen to play in the second annual Jimmy V Classic at the Meadowlands on Dec. 20. Joining the Lions in the field are Massachusetts, North Carolina and the University of California. Coach Jerry Dunn's five will play Cal's Golden Bears in the opening game. The Jimmy V Classic will be televised nationally by ESPN.

Golf finals

For the first time since 1987, the Penn State men's golf team qualified to play in the NCAA Championships. The Nittany Lions finished in a tie for ninth place in the East Regional at the Concord Monster Course in Kiamesha, N.Y., to move into the NCAA finals.

Sears Directors Cup

Cheerleader Robyn Gray, a recent graduate from Uniontown, Pa., has been chosen to receive a Sears Directors Cup postgraduate scholarship award. A 3.84 student, Gray received her degree in human development and family studies.

"Athlete-of-the-Year"

Fencing standout Olga Kalinowskaya Ritterbush, the first woman to win four individual NCAA fencing championships, is *College Sports*' magazine's choice as men's and women's fencing "Athlete-of-the-Year."

Carpooler

Kurt would like to carpool to University Park from Philipsburg area. Will pay or can give ride. Inquire at (work) 863-0839 or (home) 342-5565. Work hours are 8 a.m.-5 p.m.

Intercom online



You can see portions of this issue in electronic form on the World Wide Web. To access stories, features, arts listing and the University Park Calendar online, go to the University Relations home page at URL: <http://www.ur.psu.edu/> and click on the Intercom button.



What's a little rain?

Not to be fooled by the weather, the employees in the Office of Physical Plant at University Park moved their annual picnic indoors, grills and all. Lisa Berkey, project manager in the Office of Physical Plant, right, flips more burgers into a pan for Jim Smith, manager of climate-control systems for the Office of Physical Plant, to distribute.

Photo: Annemarie Mountz

Obituary

Political science professor was 72

J. Cudd Brown, professor of political science, 1968-1985, died Friday, April 12, at his home in State College. Brown was director of International Program Development in the College of the Liberal Arts from 1968-1974. Before that, he served as chairman of the Division of Social Sciences at Sonoma State College in Santa Rosa, Calif., Chevalier associate professor of diplomacy and world affairs at Occidental College in Los Angeles and assistant professor of international relations at San Francisco State College.

After retiring from Penn State as professor emeritus, Brown taught at the Federal Executive Institute in Charlottesville, Va., from 1984-1995, where he developed a constitutional literacy program and was coordinator of programs and leadership development.

Brown is survived by his wife of 49 years, Kathryn; his daughter, Alison; son-in-law, Robert; granddaughter, Kimberly; and his sons Steven and Gregory.

Born May 5, 1923, Brown grew up in Gaffney, S.C., and spent three years in the Army Air Corps during World War II. He earned his B.S. in foreign service from Georgetown University in 1948, his M.A. in international relations from American University in 1952, and his Ph.D. in political science from the University of Oregon — where he was a Carnegie Teaching Fellow — in 1956.

Twice honored as "Outstanding Professor of the Year" at Sonoma State College, Brown was nominated as "Lecturer of the Year" by the American Association of University Professors. He also received the secretary of state's Honor Award for Outstanding Service in Kenya; the Office of Personnel Management's Special Award for Distinguished and Talented Service; the F.E.I.'s Special Merit Award; and the F.E.I. Alumni Association's Distinguished Teacher, Colleague and Friend Award.

Memorial contributions may be made to the Cudd Brown Scholarship Fund in care of F.E.I.A.A., P.O. Box 1001, Charlottesville, Va. 22066.

PENNSTATE INTERCOM

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INTERCOM

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Artist at work

Poster art is a specialty for Lanny Sommese, who has won International awards for his work. He has once again designed the official poster for the Central Pennsylvania Festival of the Arts, which will be held July 10 to 14.

Photo: Greg Grieco

Labor of love

Professor has designed arts festival poster for two decades

By ANNEMARIE MOUNTZ
Public Information

It's difficult to come up with an original design for the official poster of the Central Pennsylvania Festival of the Arts — especially when you've done the last 20 or so in a row.

"It does get to be a challenge, both thematically and stylistically," Lanny Sommese, professor and head of graphic design in the School of

Visual Arts, said. "I try to make them each look very different."

So after two decades of going back to the drawing board, why does he continue to do it?

"The real question is why not? The festival board needs it and I enjoy doing it," Sommese said. "I believe the festival is good for this area, so it's really a synergistic relationship. I think it has a lot to do with all the festival directors over the years. They've been very cooperative

and have given me a certain amount of creative license, so it's been a lot of fun for me. It's also always fun to go into people's houses and see my posters hanging there."

Sommese, who has been with the University since 1970, incorporates the same elements into each of the posters. He tries to portray the fact that it's a summer event and also include elements of both the visual

See "Poster" on page 10

University sues to have amusement tax invalidated

By LISA M. ROSELLINI
Public Information

After months of expressing opposition, the University has filed a lawsuit to stop a local municipality from implementing an amusement tax beginning Sept. 1 on events at The Bryce Jordan Center and Beaver Stadium.

In April, officials of College Township — home to both the Jordan Center and the stadium — passed an ordinance to start collecting a 5-percent amusement tax on ticket sales to events at the University-operated facilities. The University's suit, filed May 31, asks the Centre County Court to declare the township's plan invalid because the University is an instrument of the state and not subject to taxation. The appeal also says the

See "Tax" on page 4

Spanier outlines plan to legislators

Following the conclusion of eight regional meetings across the state, in which Penn State officials outlined their plans to restructure the Commonwealth Educational System, President Graham B. Spanier traveled to the Capitol earlier this month to answer questions from legislators on the impact of the plan.

Some of the conversation during the special meeting of the House Education Committee revolved around documents recently circulated by opponents of Penn State's efforts to redesign itself. Spanier told the committee that the documents contained a number of misleading statements.

"If the information suggesting otherwise came out of the higher education community someone should be

See "Plan" on page 5

Inside

WEB
BROWSER

WEB Browser

If you misplaced the URLs for some of the sites our WEB Browser has pointed you toward in the last few months, don't worry. He's listed them again on page 6.



Research

A sociology professor has found that boot camps do more to rehabilitate prisoners than traditional jail. For details, please see page 15.

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DIVERSITY

Associate dean to chair McNair steering panel

Howard E. Wray III, associate dean for undergraduate education, was elected chairperson of the National McNair Steering Committee. Wray has responsibility for academic assistance programs University-wide and is director of the McNair program at Penn State.

Ronald E. McNair, Post-Baccalaureate Achievement Program, commonly referred to as the McNair Scholars Program, prepares undergraduate, low-income, first-generation college students and students underrepresented in graduate education, for doctoral study. Penn State's McNair Scholars Program, which currently has 30 students, is one of 99 such programs nationwide. They were established in 1986 by the U.S. Department of Education in memory of Challenger astronaut-physicist Ronald E. McNair.

McNair Scholars are funded for three years of study and begin their program at Penn State with a summer research internship. About 10 new McNair Scholars are expected to begin their program this month.

The steering committee's charge is to work with colleges and universities across the country to increase the number of doctorates earned by low-income, first-generation college students and those from groups underrepresented in graduate education.

Seven to share their expertise as Scholars in Residence

Seven minority university professors and researchers are coming to Penn State this summer to teach and share their experiences in Latino literature, drawing, women's studies, bilingual education, early childhood intervention and health education.

The Scholars in Residence Summer Program for Minority Faculty brings together minority scholars from universities across the country to teach, meet students and engage in research. The program gives them the chance to become familiar with Penn State's education and research programs while enhancing diversity on Penn State's campuses.

The Scholars in Residence at University Park include:

■ **Matthew Adeyanju**, associate professor in health education at the University of Kansas, will teach, "Cross-Cultural Issues in Health Promotion," from July 1 through Aug. 9. **Larry Olson**, professor of health education, is host.

■ **Alfred Arteaga**, professor of English, University of California-Berkeley, will teach "Hybridity and Poetics of Mestizaje," and oversee independent studies with undergraduates interested in Latino literature, June 23 to Aug. 9. **Celeste Delgado**, assistant professor of English, is host.

■ **Artist Carolyn Martin** will teach "Beginning

Drawing" and critique student work, June 23 to Aug. 9. **Micaela Amato**, associate professor of art and women's studies, is host.

■ **Caryl Sheffield**, associate professor of elementary/early childhood education, California University of Pennsylvania, will teach "Introduction to Instructional Technology for Educators" June 23 to Aug. 9. **David Jonassen**, professor of education, is host.

■ **Jocelyn K. Moody**, assistant professor of English, University of Washington, is teaching "Women and the American Experience," through Aug. 10. **Evan Watkins**, professor of English, is host.

Two of the scholars will work at the Penn State Allentown Campus.

■ **Sandra Pulliza**, associate professor, Turabo University in Puerto Rico, will teach 11th- and 12th-grade students writing skills, SAT preparation and how to work with a dialogue journal, July 6 to Aug. 3. **Kenneth McGeary**, director of Continuing and Distance Education, is host; and

■ **Naomi Vega**, assistant professor, Universidad del Sagrado Corazon, Puerto Rico, will work with ninth- and 10th-graders on their writing skills, preparing for SAT and writing journals, July 22 to Aug. 23. McGeary is also Vega's host.

Promotions

Staff

Richard Baird, admissions counselor I at Penn State Altoona Campus.

Gayle Baker, library assistant II at Penn State Great Valley Campus.

Suzanne Bennett, staff assistant VII in College of the Liberal Arts.

Scott Bitner, lead applications programmer/analyst in Corporate Controller's Office.

Robert D. Blair, financial analyst at The Hershey Medical Center.

Carole Bookhamer, staff assistant V at Penn State Altoona Campus.

Shirley E. Brechbill, staff assistant V, Housing and Food Services, at Penn State Mont Alto Campus.

Ronnie J. Brobeck, applications programmer/analyst in Office of the President.

Caryn Brown, staff assistant VI at Penn State Erie, The Behrend College.

Jane S. Brown, staff assistant VI in College of Arts and Architecture.

Mary L. Carothers, accounting aide in Office of the President.

Tamara Cassel, staff assistant V at The Hershey Medical Center.

Eleanor A. Chodella, assistant to financial officer I at Penn State New Kensington Campus.

Margaret T. Considine, senior applications programmer/analyst in Corporate Controller's Office.

De Anna Cree, staff assistant V at Penn State Altoona Campus.

Helen Decker, staff assistant VII at The Hershey Medical Center.

Janice Devan, network coordinator in Corporate Controller's Office.

M. M. Dincola, staff assistant V in Housing and Food Services.

Carol Dwyer, senior instructional designer in Computer and Information Systems, Center for Academic Computing.

Tina Eberly, staff assistant VII at The Hershey Medical Center.

Melanie Ekdahl, staff assistant VIII in Office of the President.

Michele Evans-Hoover, publications editor at Penn State Harrisburg.

Linda Fisher, staff assistant IX in Applied Research Laboratory.

Thomas Flach, senior research programmer in Computer and Information Systems, Center for Academic Computing.

Jacqueline Fornal, staff assistant IV in College of Agricultural Sciences.

Margaret Gillmore, staff assistant V at The Hershey Medical Center.

Geraldine Goodwin, staff assistant IV at Penn State Wilkes-Barre Campus.

Penny Gorchick, staff assistant VII at The Hershey Medical Center.

Harold Hanold, staff assistant VI in College of Earth and Mineral Sciences.

Deborah Hill, marketing information coordinator in Division of Development and Alumni Relations.

Angela Hogans, employment/classification analyst II in Office of Human Resources.

Ann Horvath, senior applications programmer/analyst in Corporate Controller's Office.

Linda Houtz, staff assistant VI in College of Agricultural Sciences.

Kathy Johnston, staff assistant VI in College of Earth and Mineral Sciences.

Carole Jones, finance and accounting assistant at The Hershey Medical Center.

Jo Anne H. Keller, program specialist at Penn State York Campus.

Patricia E. Kidder, administrative assistant III in College of Communications.

Joanne Kirchmer, technician, Research, at The Hershey Medical Center.

Susan Knell, coordinator, Student Services, in the Eberly College of Science.

Grechen A. Leathers, assistant director in Continuing and Distance Education.

Eric W. Loop, area representative II in Continuing and Distance Education.

Gilbert Loshelder, advanced engineering aide at Penn State McKeesport Campus.

Andrew Miller, financial coordinator, Surgical Sciences, at The Hershey Medical Center.

Sharon K. Mortensen, associate director for business in Office of Student Affairs.

Barbara J. Noll, staff assistant VI at The Hershey Medical Center.

Jeannie Nye, staff assistant V at The Hershey Medical Center.

Lissa B. Obelter, associate director, Research Affairs, at The Hershey Medical Center.

Laura A. Palmer, staff assistant V, Housing and Food Services, at Penn State Erie, The Behrend College.

Barbara A. Pancerella, staff assistant V, Housing and Food Services, at Penn State Hazleton Campus.

Cynthia A. Piergossi, staff assistant V, Housing and Food Services, at Penn State Berks Campus.

Kathy J. Reinhold, staff assistant V at The Hershey Medical Center.

Carolee A. Roman, library assistant III at Penn State Harrisburg.

Stacey L. Ruberford, staff assistant V at Penn State McKeesport Campus.

Jack W. Sinclair, area representative II in Continuing and Distance Education.

Molly Slep, staff assistant V at Penn State Altoona Campus.

Shelia L. Smith, staff assistant VI at Penn State Altoona Campus.

Patricia A. Smith, program aide at Penn State Delaware County Campus.

James R. Snyder, senior application programmer/analyst in Budget and Resource Analysis.

Sheila Spangler, senior research support associate at The Hershey Medical Center.

Gail E. Steele, staff assistant V at Penn State Altoona Campus.

Walton Taylor, senior microcomputer system consultant at Penn State Great Valley Campus.

Cynthia D. Tressler, human resources coordinator I in Health and Human Development.

Timothy M. Whitehill, lead applications programmer/analyst in Budget and Resource Analysis.

Technical Service

Lee J. Kline, residence hall, Utility Worker, in Housing and Food Services.

Harry Loose, maintenance worker utility, Ground Leader, at The Bryce Jordan Center.

Melissa J. Mahes, food preparer B in Housing and Food Services.

Robert A. Rhoads, stock delivery clerk in Business Services.



Think green

Sam Hoffmaster of Stone Valley Construction Co. works on the new intramural field on North Alherton Street across from Recreation Building on the University Park Campus. The green-space project began last fall.

Photo: Greg Grifco

Questions answered on grade reporting process

The new grade reporting system implemented last semester was a direct response to student requests to improve the timeliness of grade reporting and to increase the ease of accessing grades. Since its start, there have been several questions about the new procedures and the following article attempts to answer some of those concerns.

The new grade reporting system, which allows students to obtain grades by calling a toll-free number, makes grades available by telephone within 24 hours after the instructor reports the student's final course grade to the Registrar's Office. Students can access grades from anywhere in the continental United States and need only a touch-tone telephone and their personal access code (PAC) — a four-digit number created on the first call.

The toll-free number is (800) 876-0354. The grade reporting system will provide semester and also cumulative grade point averages once all grades have been reported.

Through the system, every student also can receive a printed grade report. All undergraduate students receive a degree audit report at the beginning of each semester. The audit includes information regarding the student's academic program, degree progress and degree requirements completed/remaining. The previous semester grade report also is included in the audit.

Students who do not receive the degree audit continue to receive a printed copy of their semester grades. These include: all graduate students, all graduating seniors, all nondegree students, all students approved for withdrawal or

leave of absence and all students enrolled in non-credit courses.

Students not included in one of those five groups should contact the Registrar's Office at the campus where they're enrolled. A grade report will be provided at no charge.

Last semester, the system responded to more than 41,000 calls in a single day and more than 100,000 for the entire semester. This semester, more than 150,000 calls have already been answered, with an average of 18,000 calls daily. Across the nation, it is now estimated that approximately 400,000 students at dozens of colleges and universities take advantage of telephone grade reporting.

The personal access code, or PAC, is a student's personal security code, similar to the number used at automated teller machines. Anyone who has not established a PAC number can create one during the first call to the telephone grade reporting system. Anyone wishing to change or alter their PAC number should visit the Registrar's Office at their enrolled campus.

Grades continue to be available on both unofficial and official transcripts. You may also use the OASIS computer system from one of the 450 OASIS stations across the University, or from home if you have obtained a free copy of the OASIS client software for your personal computer. You may also contact the Registrar's Office at the Penn State campus where you are enrolled. A grade report will be provided at no charge.

Anyone needing more information on grade reporting by telephone can contact the Registrar's Office at (814) 865-6357 or by e-mail at registrar@psu.edu.

News in Brief

Blood drives

The College of Earth and Mineral Sciences will hold a blood drive from 10 a.m. to 4 p.m. June 25 in 205-206 Walker Building. The college is celebrating its centennial this year and to commemorate its commitment to excellence in education, University service and service to the community, has set a goal of 100 pints of blood — one for each year of the college's history.

In addition, the following blood drives will be held on the University Park Campus:

- June 21, Physical Plant Building, 9 a.m. to 3 p.m.
- July 1, 101 Kern, 10 a.m. to 4 p.m.
- July 8, HUB Ballroom, 10 a.m. to 4 p.m.
- July 10, Pollock Union Building, 11 to 7 p.m.

While walk-in donors are welcome, appointments are highly recommended and can be made with **Connie Schroeder**, American Red Cross, at (814) 237-2713. Appointments to give blood at Walker Building can also be made by calling **Melanie Hall** at (814) 863-1560.

Upcoming HRDC courses

The following course is being offered by the Human Resource Development Center. To register for these courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form, page 57 of the HRDC course catalog.

■ Understanding the Internet and Netscape Web Browser and Their Relationship to the General University Reference Utility (GURU)

Topics include: how the Internet works, PC/Internet connections, how browsers work, Netscape Navigator browser basics, Adobe Acrobat Reader basics, and other related tools. From 8:30 a.m.-noon Friday, June 28, in 319 Rider Building; cost: none. (PRO-071)

Bike registration renewal

Bicycling is a great way to get around, but if you bring your bicycle to campus, you need to have it registered.

The 1996 registrations are now available from 7 a.m. to 4:30 p.m., Monday through Friday at parking booths throughout campus and at other times at Police Services in the Eisenhower Parking Deck. The 1995 bicycle registrations expired at the end of May. Beginning Monday, July 8, bicycles that do not have a 1996 registration and are left unattended on campus are subject to impoundment by Police Services. Impounded bicycles not claimed within 90 days are disposed of through Salvage and Surplus.

Summer Weight Watchers

The Weight Watchers program is available at Penn State this summer. Meets from noon-1 p.m. Wednes-

days, July 3 until Sept. 4 in the Paul Robeson Cultural Center Auditorium. Cost is \$115 (lifetime member \$105).

Families needed for study

In an effort to better understand what causes some adolescent girls to be unhappy with their weight and appearance, to discover how exercise patterns develop and to follow eating habits and the development of self-image, the College of Health and Human Development is conducting a study of families with girls who are eligible for kindergarten in the fall of 1996.

The study, which will follow girls' development from the early school years to pre-adolescence, involves the girls visiting the Children's Eating Laboratory at University Park for two half-day sessions when they are five, seven and nine years old. As part of understanding the family environment, information on parenting practices and parents' own eating and exercise practices also will be obtained.

Families can earn up to \$600 in U.S. Savings Bonds for their participation. Anyone interested can call (814) 863-9972 or toll free at 1-888-202-6333. The project is funded by a grant from the National Institute of Child Health and Human Development and is under the direction of **Leanne Liberman**, professor of human development and family studies.

Planning council welcomes new members

Graduations and job changes have resulted in several recent additions to the University Planning Council, chaired by **John A. Brighton**, executive vice president and provost. The council, appointed last fall, will provide overall guidance to Penn State's strategic planning efforts and is taking a broad view of University priorities by reviewing the University's mission, vision and core values.

New members include **Karen W. Sandler**, campus executive officer at the Penn State Abington-Ogontz Campus, and **Ed Kilpela**, vice president of

Undergraduate Student Government. Both Sandler and Kilpela began working on the council in late May.

Resigning from the council are **Kara Annechini**, past president of the Undergraduate Student Government, who has graduated, and **Corinne Caldwell**, campus executive officer for the Mont Alto Campus, who is leaving Penn State to assume a vice presidency at Temple University.

The UPC is made up of 15 faculty, deans, administrators and students and is supported by five additional staff members, such as the budget

officer for the University. Details about the UPC's work and a complete list of its members can be found on the World Wide Web at: <http://www.ur.psu.edu/PresAdmin/PresAdmin.html>

Currently, the UPC is meeting with all deans and senior administrators of the University to discuss unit planning issues and directions. In addition, a number of working groups have been formed to study broad, key areas of the University, such as tuition differentials, academic enhancement and continuing and distance education.

Tax

continued from page 1

ordinance is "vague, over-broad and ... prohibited by the Pennsylvania constitution."

In addition, such a tax would nullify a 1992 agreement among the University and six local governing bodies—including College Township—and the State College Area School District, under which Penn State pays out about \$1 million per year in cash and in-kind services. The agreement also includes an inflationary clause.

"The township's proposed course of action will have an adverse effect on those who live, work and operate businesses in the Centre Region," President **Graham B. Spanier** said. "The Bryce Jordan Center and Beaver Stadium provide significant financial benefit to the region which far outweighs any financial impact on College Township."

As an example, Spanier pointed to a 1991 economic impact study of the Jordan Center which estimates that once fully operational, the center will boost the regional economy by nearly \$24 million a year and provide \$0.4 million in 1987 study of the impact of Penn State football on the Centre Region, about \$40.3 million in direct and indirect spending in the region was attributed to the 54,000 fans who trekked more than 25 miles to attend a game—and that was before the 10,300-seat expansion of the stadium in 1991.

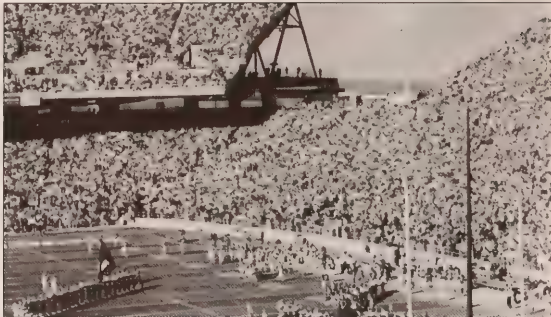
"In many communities across the nation, local officials are spending local tax dollars to construct these types of facilities because of the tremendous financial benefits they provide to the local economy from spin-off activities and spending," **Daniel W. Sieminski**, director for finance and business for the University, said. "No local taxes were spent to construct the Jordan Center or Beaver Stadium but the tremendous benefits are still there and are being reaped."

Bob Price, executive director of Downtown State College Inc., confirmed that point and said, "Some of the feedback that I'm getting is that the Jordan Center so far has had a tremendous impact and we anticipate that to continue and grow."

"Retailers are saying they are seeing tremendous increases when there are events at the center."

Sieminski said the type of tax the township wants to impose is not only on local businesses and those attending events, but will also cause the loss of certain types of events. It has been estimated that 61 percent of the people attending events at the Jordan Center are residents of Centre County, so it will be local residents who are hit hardest by the tax. One events promoter has already said that if the amusement tax is instituted, some of the acts will bypass the Centre Region and opt for another area with greater income potential.

Scott K. Shewell, press secretary for the State System of Higher Education (SSHE), said Penn State is not alone in its battle to retain its tax-exempt status. Officials of SSHE, Pennsylvania's system of 14 state-owned universities, have been keeping a watchful eye on events across the state, where other institutions have found themselves in similar situations. In fact, the mayors of several communities in Pennsylvania have formed a council of governments and started to meet with representatives of the Board of



Already contributing

A 50-cent fee is charged on each of the roughly 96,000 tickets sold for each home Penn State football game at Beaver Stadium. The fee contributes to the nearly \$1 million of funding and in-kind services that goes to the local governments and State College Area School District each year.

Governors of SSHE to discuss their concerns about SSHE schools helping fund municipal services.

"We are tax exempt because we are an entity of the state. We do not have deep pockets and once we're done paying our expenses, there's not a lot of room for anything else," Shewell said. "In good economic times these communities have traditionally been more than happy to have these institutions of higher education within their borders, but in the tight economic times we are all facing, they're looking for ways to increase their revenues."

An official for one college in western Pennsylvania, which is still embroiled in a tax battle with its local municipality, calls the practice "extortion."

As the director of public information at Washington and Jefferson College, **Edward Marotta** has been on the front lines of a court battle with the city of Washington, Pa., that at one point, resulted in the revocation of the college's tax-exempt status. Since that 1994 court action, the 40-acre college with a student enrollment of 1,100 has regained its tax-exempt status but the city has now appealed that state Supreme Court decision.

"Washington and Jefferson, like other institutions, brings many things to the community beyond the payment of taxes," Marotta said. "Washington and Jefferson, like other colleges, has a business side. We have to maintain buildings, provide housing, provide food. But our main business since our founding has been to produce leaders. That's the contribution we make to this community and the municipality at large. If we have a dollar coming in from a donor or other source, that dollar should be used for education—not to pave a municipality's roads."

In the case of Penn State, the contributions it makes to the local community also go beyond providing an educated citizenry and go well beyond dollars and cents, according to University officials.

A few obvious examples noted by both Spanier

and Sieminski include the community's use of facilities like Patten Library, Recreation Building, the Intramural Building, the playing fields, skating and tennis facilities, the Natatorium, speech and hearing clinics and Stone Valley Recreation Area. Those visiting Penn State also have free access to the Earth and Mineral Sciences Museum, the Frost Entomological Museum, the Palmer Museum of Art and Zeller Gallery. The University Park Campus—along with the local community—hosts the annual Central Pennsylvania Festival of the Arts.

In addition, the University's HazMat team equipped to handle hazardous materials also responds to calls throughout Centre County.

There is a large contingent of Penn State employees who contribute to the betterment of their communities by volunteering for boards and committees, Sieminski said. "The knowledge base here and the availability of expert advice also adds to the mix."

Sieminski also pointed out that the University maintains its own roads, has its own sewage treatment plant, its own source of power, its own police force and its own state police.

With an event at the Jordan Center and the stadium are covered by the University.

"It's a quality of life issue," said **Brian Mitchell**, president of the Commission of Independent Colleges and Universities of Pennsylvania. "If anyone were to enumerate all of the benefits that Penn State brings to its local community, I think it would enlarge the debate and put it back in proper perspective."

Which is what the court action may do.

"As a general principle, we certainly think local taxing bodies are hard pressed," said **CICU's Mitchell**. "However, we don't think finding short-term solutions to ongoing financing problems is the right approach. We recommend that the issue of local tax reform be addressed here on."

Plan

continued from page 1

scolded for using data so poorly," Spanier said.

As described by Spanier to the committee, Penn State's Plan for the Commonwealth is principally an internal restructuring that will allow the University to function more effectively and is based upon extensive studies of student needs and demographics that project future enrollment trends.

"We have demonstrated clearly and factually that the plan is not designed to take students away from other institutions but merely to help meet, in the most effective and efficient way possible, the future educational needs of the state," he said.

By the year 2001, Pennsylvania will have an additional 10,500 high school graduates going to college each year, assuming no change in current college-going rates. If the college-going rate should continue to increase (which it has been doing steadily since the mid-1970s), the added number of students going on to college will increase by more than 17,000 each year by 2001. Penn State currently enrolls approximately 11.2 percent of the Pennsylvania high school graduates who go on to college in Pennsylvania. Under the plan, Penn State would actually decrease its market share of new high school graduates. Opponents of the plan have suggested that it is really designed to increase Penn State's enrollment.

"There are going to be large numbers of students who will need to be absorbed by the independent institutions and by the State System of Higher Education," Spanier said. "Under our plan, we would actually slow down our current enrollment growth."

Some private college administrators have charged that Penn State's redesign threatens their institutions and have said that public institutions receive too much state funds, thus competing unfairly with private colleges. Rep. Robert E. Nye, R-North Hampton, suggested the possibility of the state shifting funds from Penn State and giving the money that now goes to the institution to individual students to take wherever they wished. When asked to comment on the proposal, Spanier pointed out that such a move would make a college education too expensive for the average family.

"Public universities exist because it is good for the state to have an educated populace and many state families can't afford private colleges. Part of our mission as Pennsylvania's land-grant college is to make higher education available to the children of working- and middle-class families," Spanier said. "If the state were going to provide a direct subsidy to students could go to private universities, students would require triple the amount they now need for tuition at public universities such as Penn State."

Spanier also noted that while Pennsylvania ranks 47th nationally in funding of state-owned and state-related colleges, it ranks second in providing state

The Penn State Redesign Plan

WHAT IT DOES NOT DO

- Does not add any new campuses;
- Does not project large enrollment increases;
- Does not increase Penn State's "market share" beyond current levels;
- Does not accelerate Penn State's current growth rate;
- Does not create large numbers of new academic programs;
- Does not produce any unnecessary duplication of program offerings.

WHAT IT DOES

- Makes it easier, within Penn State, to respond to tailored academic program needs of the local regions;
- Better accommodates Penn State students who are location bound;
- Slows down the present enrollment growth rate at Penn State;
- Allows for better enrollment balance across the locations of Penn State;
- Conforms with Penn State's land-grant mission by enabling greater access for Pennsylvania students.

dollars to private colleges, even though nearly half of the students attending Pennsylvania private colleges come from out of state. This compares to approximately 12 percent of Penn State's students who are from out of state.

Spanier used the opportunity with the Higher Education Committee to also outline his belief that support of public higher education, and in particular support of the state's only land-grant institution, is vital to the future of the Commonwealth.

"The future prosperity of the Commonwealth depends on the connection between education and economic development, especially changing workforce demands," Spanier said.

"Penn State needs to become the state's rapid deployment force, able to respond quickly to changing needs. This means support of the land-grant mission more than ever. This means accountability without undue regulation. This means that entrepreneurial activity and risk taking need to be rewarded. This means synergy through cooperation and mutual support."

The new design of Penn State, part of a major planning effort that began last fall, will go before Penn State's Board of Trustees during its July meeting. It has met with strong enthusiasm from the communities where Penn State campuses are located, largely because it will allow more and quicker response to local community and student needs.

"Penn State's Commonwealth Campuses — far more so than the University Park Campus — were built predominantly through funds provided by the counties, by the communities, by donors, and to a lesser extent than the University Park Campus, by the state," Spanier said. "The facilities on our Com-

monwealth Campuses have a very heavy investment by the communities where they are located."

"Is it not good public policy to capture and use this investment of public and private dollars to support community demand?" he asked the committee.

Private college officials have said that 650 students a year transfer from Penn State to their schools. President Spanier noted that transfers work both ways, and that hundreds of students a year also transfer from other colleges to a Penn State campus.

The redesign of Penn State only calls for keeping 25 percent of the University's current attrition pool and would be aimed at location-bound students who do not have the option of completing a college degree at University Park.

"I hope this debate is not about 100 students," Spanier said. "We could all be fiddling while Rome is burning."

Spanier noted that commercial enterprises are now offering college courses and degree opportunities to Pennsylvanians, and many of these are from out of state.

Spanier told the committee he is concerned about the "long-term decline in state support for public higher education, in inflation-adjusted dollars. Particularly at a time with increased demand."

"I believe the future prosperity of the Commonwealth depends on the connections between education and economic development, especially changing workforce demands," he said. "One of the most significant challenges we face in Pennsylvania higher education is how we will collectively respond to this link between education and economic development."

Obituaries

Sarah Jane Blair, food preparer in Housing and Food Services, from Dec. 1, 1953, until her retirement Jan. 1, 1984; died April 29 at the age of 87.

William L. Eck, associate professor of health education, died April 21; he was 88. Eck worked at the University from Aug. 1, 1974, until his retirement Aug. 1, 1984.

Eck, a 1941 graduate of Springfield College, received his master's degree in 1952 from the University of Massachusetts. In 1967, he received his doctorate in school health administration from New York University.

From 1950 to 1974, he was chairman and teacher, and then coordinator of health education in the Great Neck, Long Island, N.Y., school system. He developed New York's first alcohol and drug curriculum and syllabus for educators. In 1970, he was a delegate to the White House Conference on Children and Youth.

While at the University, Eck was involved in numerous drug and alcohol abuse programs and was founder and co-director of the Total Alcohol Awareness Program. From 1977 to 1982, he conducted alcohol awareness programs for Intercollegiate Athletics.

He served on the Governor's Council on Drug and Alcohol Abuse and was chairman of the Pennsylvania State System of Higher Education Conference on Alcohol and Other Drug Use.

Herbert C. Gilmore, former assistant county agent in Clarion and Vanango counties for the Penn State Cooperative Extension Service and a member of the extension dairy science faculty, died April 11 at the age of 74.

Gilmore, who retired Nov. 1, 1980, was in charge of the Pennsylvania Dairy Herd Improvement Association program from 1958 until his retire-

ment. In 1966, he received the Pennsylvania Dairyman's Association Extension Award, and in 1979 won the Gamma Sigma Delta Extension Award. In 1995, the Pennsylvania Dairy Herd Improvement Association created the Herbert C. Gilmore Award to annually honor an outstanding individual in milk testing.

Glenn W. Goss, director of agricultural communications and associate professor in the College of Agricultural Sciences, from Jan. 1, 1960, until his retirement Jan. 1, 1987; died April 16 at the age of 69.

WEB BROWSER

In case you missed them the first time ...

A number of readers have written requesting a list of Web sites I've mentioned in previous columns. In response — and because it *is* the season for summer reruns — here goes:

■ **Sites at Penn State, or sites intended for use by University faculty, staff and students:**

URL: <http://guru.sp.psu.edu/>

— Journal of public administration and management:

URL: <http://www.hbg.psu.edu/Faculty/jr11/>

— Penn State Police Services

URL: <http://ids.cac.psu.edu/pals/>

— CJC web site

URL: <http://www.ur.psu.edu/CJC/CJindex.html>

— Britannica Online for Penn State users

URL: <http://turnoneb.com> (Click on "subscribers" link only)

■ **General news and information**

— Switchboard database

90-million name database:

URL: <http://www.switchboard.com/>

— Mapquest and Tripquest: Look up streetmaps and business locations; generate trip route plan:

URL: <http://www.mapquest.com>

— Internet information resources:

URL: <http://www.pitso.com/pitso/citc.html>

■ **New search engines:**

— Starting Point

URL: <http://www.stpt.com/>

— MetaCrawler

URL: <http://metacrawler.cs.washington.edu:8080/>

■ **Collection of links to free stuff**

URL: <http://members.tripod.com/~tabbe/index.html>

■ **Interesting devices attached to the Web**

WebCams around the country

URL: <http://cirrus.sprl.com/ud/wnc1/uzcam.html>

■ **Links to other devices living on the Web: Everything from artificial life, to pets, to virtual pizza ...**

hmmm ... takeout, anyone?

URL: http://www.yahoo.com/Computers_and_Internet/Internet/Entertainment/Interesting_Devices_Connected_to_the_Net/

Many thanks for dozens of good tips over the past few months. I depend on suggestions for sites you think would be of interest to *Intercom* readers. Please e-mail your suggestions to me at dws9@psu.edu. If you prefer to be anonymous, please let me know. I do like to give credit unless you prefer otherwise.

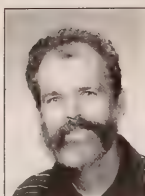
Two named Guggenheim Fellows

Bruce G. Lindsay, distinguished professor of statistics, and Kenneth M. Merz, associate professor of chemistry, have been selected as Guggenheim Fellows by the John Simon Guggenheim Memorial Foundation.

According to the foundation, Guggenheim Fellows are selected on the basis of their unusually distinguished achievements and their exceptional promise for future accomplishments. Lindsay and Merz were among 158 scientists, scholars and artists selected to receive the award in 1996 out of nearly 3,000 candidates.

Lindsay has earned a wide reputation for his seminal work in mixture models. His work is recognized as a major contribution to the foundations of statistical theory and also has practical applications to genetics and ecology. He serves as associate editor of two journals in theoretical statistics and provides expertise to Penn State faculty in many disciplines.

Lindsay received a bachelor's degree at the University of Oregon in 1969, then was a graduate student at Yale University and a member of the United States Coast Guard before earning a doctoral degree at the University



Bruce G. Lindsay



Kenneth M. Merz

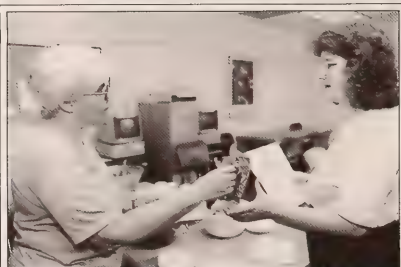
important molecules. These simulations provide researchers with insights into chemical phenomena at the molecular level that, in many cases, are not possible to obtain experimentally. He also is conducting research that may provide insights into such infectious diseases as influenza and HIV.

Merz earned a bachelor's degree in chemistry at Washington College in 1981 and a doctoral degree in organic chemistry at the University of Texas at Austin in 1985, where he received the departmental competitive fellowship and two Robert A. Welch fellowships. He was a postdoctoral scholar at Cornell University and the University of California at San Francisco before joining the Penn State faculty in 1989.

Hershey opens new center

The Penn State Arthritis, Bone and Joint Center opened Saturday, June 1, at The Hershey Medical Center.

The center brings together fellowship-trained specialists in orthopedics, rheumatology, radiology, rehabilitation, metabolic bone disease and hand and physical therapy for the coordinated delivery of musculoskeletal care.



Carol Reilly

staff assistant in the Center for Adult Learner Services, prepares refreshments for the center's summer orientation program with help from Lessa Yeager, a work study employee at the center.

Photo: Andrea Hurley

Get Intercom online

You can see portions of this issue in electronic form on the World Wide Web. To access stories, arts listings and the University Park Calendar, go to the University Relations home page at URL: <http://www.ur.psu.edu/> and click on the Intercom button.

Arts and Architecture has two new schools

Organizational changes in the College of Arts and Architecture effective July 1, mean the college will now be home to the School of Theatre Arts and the School of Architecture and Landscape Architecture.

The designation of these areas as schools brings them in line with the other two major units within the college: the School of Music and the School of Visual Arts.

The School of Architecture and Landscape Architecture brings together faculty and students who have mutual interests and needs and whose disciplines are closely linked in pro-

fessional practice. This move provides for the creation of an advisory board comprising alumni and practitioners from the related fields who will provide counsel on matters pertaining to the school and the individual departments. Each department will continue to administer their existing professional degree programs. Michael Fifield, head and professor of architecture, and Eliza Pennypacker, head and professor of landscape architecture, will continue in their respective roles.

The school will have a Council for Interdisciplinary and Coopera-

tive Programs that will coordinate programs common to both departments. The two department heads and an equal number of faculty from each department will serve on the council.

The School of Theatre Arts will maintain its accreditation by the National Association of Schools of Theatre. Dan Carter, head and professor of theatre arts, will now have the title of director in keeping with the leadership title of the schools of music and visual arts. No organizational changes are proposed for the new school at this time.

LECTURES

Pulitzer Prize-winner to give lecture on novelists

Pulitzer Prize-winner Jane Smiley, author of *Moo* and *A Thousand Acres*, will give a free public lecture at 7:30 p.m. Wednesday, June 26, in Schwab Auditorium on the University Park Campus.

The lecture, titled "The 'N' Word," is sponsored by the Office of Summer Sessions and the Department of English. In this case, "N" stands for "novelist." No tickets are required to attend the event.

Smiley is a distinguished professor of liberal arts and sciences at Iowa State University. Her novel, *A*



Jane Smiley

Thousand Acres, has been described as "King Lear" set in Iowa. The fictional examination of modern life on the American farm won both the Pulitzer Prize and the National Book Critics Circle Award in 1992.

Her latest novel, *Moo*, is a comedy about academic life at a Midwestern university famous for its agricultural college. Her other works include the novel *The Greenlanders*, the collection *The Age of Grief* and the novellas *Ordinary Love* and *Good Will*.

Cézanne scholar to speak at Palmer Museum June 23

Mary Louise Krumrine, associate professor of art history, will present a lecture, "Cézanne in Philadelphia," at 2:30 p.m. Sunday, June 23, in the Palmer Lipson Auditorium of the Palmer Museum of Art on the University Park Campus.

Her talk is being delivered in connection with the major Cézanne retrospective now on exhibition at the Philadelphia Museum of Art.

An international authority on Cézanne, Krumrine has viewed the exhibition in its previous installations in Paris and London and

reviewed the Paris show for *The Burlington Magazine*.

Krumrine acted as guest curator for the 1989 exhibition *Paul Cézanne: Die Badenden*, at the Kunstmuseum in Basel. Her book, *Paul Cézanne: The Bathers*, has appeared in English, French and German editions, and she was one of the participants in the British Broadcasting Corp. program "Three Colours of Cézanne," produced in conjunction with the exhibition.

For more information, please call (814) 865-7672.

Harrisburg discussion to focus on controlling cancer

"Cancers: Can We Control Them?" a talk set for 8:30 a.m., June 26, at the Penn State Downtown Center in Harrisburg, will be presented by Dr. Rodrigue Mortel, associate dean and director of the Penn State Cancer Center at The Hershey Medical Center.

The discussion, which is free to the public, is part of the lecture series "Prognosis for the Decade: The Future of Health and Disease in

Pennsylvania" sponsored by The Hershey Medical Center. The series is designed to inform members of the state Legislature, state government agencies and those involved in health care policy about projections on health and disease throughout Pennsylvania in the near future.

Although the lecture is free, registration is required. To register, call the center at (717) 783-0453.

Faculty/Staff Alerts

Protect your laptop computers from theft

University Police Services recently received information through the Internet about a relatively new way that laptop computers are being stolen at airports across the country. The Federal Aviation Administration learned of a method being employed which involves two people who look for a victim carrying a laptop and approaching a metal detector.

The two position themselves in front of the unsuspecting passenger and stall until the passenger puts the laptop computer on the conveyor belt. The first person involved in the scam then moves easily through the metal detector.

The second person sets off the detector and begins a slow process of emptying pockets, removing jewelry, etc. While this is happening, the first person takes the laptop as soon as it appears on the conveyor belt and moves away quickly, disappearing into the crowd.

The FAA advises that when traveling with a laptop computer, travelers should avoid lines when entering a metal detector. If that is not possible, delay putting your luggage and laptop on the conveyor belt until you are sure that you will be the next person through the metal detector. As you move through the metal detector, keep your eyes on the conveyor belt and watch for your luggage and laptop to come through, as well as watching what is being removed from the conveyor.

Intercom schedule

Only two more issues of *Intercom* will be printed as part of the current publication schedule. Dates of publication are July 18 and Aug. 1. Copy deadlines for those issues are noon Wednesday, July 11, and Wednesday, July 24, respectively. A new *Intercom* schedule for the 1996-97 year will be available beginning July 1. Anyone who would like a copy of the new schedule when it is produced should e-mail their request to Kathy Norris at kn1@psu.edu.

Shaver's Creek summer camps

Shaver's Creek is accepting registrations for the following summer camps:

- **Discovery Day Camp** (ages

six-11): Explore the natural wonders of the world around you. Participate in games, arts and crafts, and hikes. Enjoy songs, stories and skits by the campfire. June 25-29, July 16-20, July 23-27, July 30-Aug. 3, Aug. 6-10 and Aug. 13-17.

- **Discovery Leaders in Training** (ages 14-18): Assist trained staff in leading children's activities. Develop new leadership skills. Participate in group activities and a camp out. June 25-29, July 16-20, July 23-27, July 30-Aug. 3, Aug. 6-10 and Aug. 13-17.

- **Adventure Camp** (ages 12-13): Four days of outdoor adventure. Backpack and camp out. Challenge yourself with group initiatives. June 16-20, July 30-Aug. 3 and Aug. 6-10.

- **EcoVenture** (ages 14-18): The ultimate challenge of a five-night, six-day camping trip. Acquire skills in outdoor living techniques. Canoeing, hiking, rock climbing and more. June 24-29, July 13-18 and July 22-27.

For more information and a registration packet, call (814) 863-2000 or (814) 667-3424.

Ag Progress Days set for August

From Aug. 13-15 more than 500 acres of educational and commercial exhibits will again be on display at Penn State's Ag Progress Days at the Russell E. Larson Agricultural Research Center at Rock Springs. The site is nine miles southwest of State College on Route 45.

As in past years, Ag Progress Days will also showcase Penn State agricultural research that is helping people across the state and nation in the areas of dairy and livestock production, integrated pest management, conservation practices and crop production to name a few. Tours and workshops will highlight the latest research and more than 300 commercial and non-commercial exhibitors will be on hand to display the newest goods and services. Popular field demonstrations of hay mowing, baling and composting also are planned.

Ag Progress Days hours are 9 a.m. to 5 p.m. Tuesday and Thursday, with extended hours of 9 a.m. to 8 p.m. on Wednesday. Admission and parking are free.

For more information, call (800) PSU-1010 toll free from July 15 to Aug. 15.

The ARTS

AT PENN STATE

"Man of La Mancha" opens June 28

Pennsylvania Centre Stage will present "Man of La Mancha" as its third offering of the 1996 season. The musical opens 8 p.m. Friday, June 28, in The Playhouse on the University Park Campus.

Pennsylvania Centre Stage is a program of the College of Arts and Architecture.

Dan Carter, artistic director of Centre Stage, will direct the production.

"Man of La Mancha" plays at 8 p.m. June 28, 29, July 2-6, and 9-13 in The Playhouse. Previews will be 8 p.m. June 26 and 27; Saturday matinees are 2 p.m. July 6 and 13.

Prices are \$24 for non-students and \$21 for students; previews are \$21 and \$18.

For tickets or more information, contact the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

"Forever Plaid" continues at the Pavilion

"Forever Plaid," the second show of the Pennsylvania Centre Stage 1996 season, continues through June 29 at the Pavilion Theatre on the University Park Campus.

Pennsylvania Centre Stage, the summer professional theatre at Penn State, is a program of the College of Arts and Architecture.

Neal Kenyon, director of the New York City hit "Dames at Sea," directs the production.

"Forever Plaid" plays at 8 p.m. June 20-22 and 25-29 in the Pavilion Theatre. Saturday matinees will be performed at 2 p.m. June 22 and 29.

Prices are \$22 for non-students and \$19 for students; matinees are \$18 and \$15.

For tickets or more information, contact the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

"Landmarks" at Berks

"Landmarks," the 1996 Outdoor Sculpture Exhibit on the Penn State Berks Campus, will be constructed in July and should be in place by August. Curator Will Dexter has invited nationally and internationally known artists to create site-specific sculptures that directly relate to the landscape and the history of their surroundings. The work will remain on the campus for two years, with new pieces added

each year.

Artists will begin constructing their works July 8-19 with products donated by local companies. There will be a free public reception from 2-5 p.m. Sunday, Sept. 8.

Educational tours of "Landmarks" can be scheduled on Tuesdays and Thursdays in September by calling Beverly Leviner, director of the exhibition, at (610) 320-4870.

Wood engravings at Palmer Museum

From July 9, 1996, through Jan. 5, 1997, a selection of wood engravings by Warren Mack (1896-1952), a self-taught graphic artist and former Penn State professor, will be shown at the Palmer Museum of Art on the University Park Campus.

Following the production of his first wood engraving in 1927, Mack's prints were exhibited in the most prominent juried print exhibitions of the 1930s and 1940s. In 1944, Mack was elected associate of the National Academy of Design, and he held elected memberships in a number of artists' clubs and societies. Today, Mack's prints can be found among the collections of the Metropolitan Museum of Art, the Harvard University Art Museums and the Library of Congress.

Mack held a Ph.D. in horticulture from Johns Hopkins University, and taught at the Pennsylvania State College from 1923 until 1952, becoming head of the Department of Horticulture in 1937. He brought his extensive knowledge of plants and his keen observational skills to his wood engravings.

Most works in the exhibition are from the University Libraries Fine Print Collection, with several prints loaned by the Lafayette College Art Collection and the Pennsylvania State Department of Horticulture. A companion exhibition of additional works by Mack will be held by the Centre County Historical Society at the Centre Furnace Mansion through July 16. For more information, please call (814) 865-7672.

The Traveling Black History Show

Freedom Theatre will present The Traveling Black History Show at noon and 2 p.m. at the Festival Shell on Old Main Lawn July 10 as part of the Central Pennsylvania Festival of the Arts. The performances are sponsored in



Now playing

Smudge, Frankie, Sparky and Jinx are destined to be "Forever Plaid" after a tragic accident prevents them from making it big in show business. They are given a chance to come back and perform the show they never got to do while they were alive. "Forever Plaid" is at the Pavilion Theatre on the University Park Campus through June 28.

Photo: Andrea Hurler

part by the University's Equal Opportunity Planning Committee.

Freedom Theatre's high-energy, humorous presentation is filled with music and illustrates the connections of history makers of the past, present and future. Historical characters, such as poet Paul Laurence Dunbar, ragtime pianist Scott Joplin, baseball great Jackie Robinson, comedienne Moms Mabley and singer Ella Fitzgerald are introduced and their histories covered in detail.

Freedom Theatre is Pennsylvania's oldest black theatrical institution. It provides a cultural outlet for theatergoers, opportunities for developing performers and a forum for emerging playwrights.

For more University-related arts festival events, please see the University Park Calendar on page 9 and additional stories on page 10.

Aboriginal activities

Paul Taylor, an Australian storyteller, musician and traveler who will work with Aboriginal people in Australia's tropical north, will conduct two didgeridoo-making workshops, give two performances and share a "Rock Paintings Slide Show" during the Central Pennsylvania Festival of the Arts.

At 10 a.m. and 2 p.m. July 10 on the Old Main Lawn, Taylor will work with a limited number of children to make and decorate didgeridoos, which are Aboriginal musical instruments. His performances are at noon and 6 p.m. the same day at the Bell Atlantic Yellow Pages Allen Street Stage.

On July 11 in Carnegie Cinema, Taylor will show his slides of 40,000-year-old Aboriginal rock paintings from Australia's "Land of the Lightning Brothers."

Admission to all of these events is free. For more University-related arts festival events, please see the University Park Calendar on page 9 and additional stories on page 10.

Opera for the Movies

Back by popular demand, the Office of Summer Sessions is offering free showings of Opera for the Movies. Two operas produced for film — "The Magic Flute" and "Carmen" — will be presented in the Music Building Recital Hall at 7:30 p.m. on the University Park Campus and will be accompanied by commentary by members of the Penn State voice faculty.

■ "The Magic Flute" by W.A. Mozart, Wednesday, July 17; faculty commentary by Susan Boardman, associate professor of music.

■ "Carmen" by Georges Bizet, Wednesday, July 31; faculty commentary by Sara Hopkins, instructor of music.

Crafts National 30

Contemporary crafts by artists from across the country will be presented in Crafts National 30 at the Zoller Gallery in the Visual Arts Building on the University Park Campus. The exhibition continues through July 21.

Crafts National 30, a juried exhibition held in conjunction with the Central Pennsylvania Festival of the Arts, showcases contemporary crafts by emerging and established artists. The entries represent a wide range of activity in ceramics, fibers, glass, metals, wood, paper and mixed media.

Michael W. Monro, curator-in-charge of the Peter Joseph Gallery in Manhattan, is this year's juror. He selected 120 works by 89 artists for this exhibition.

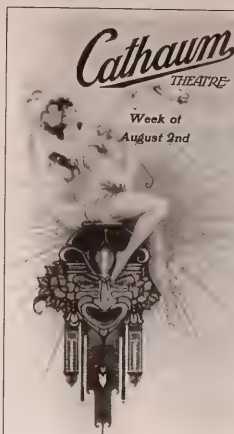
Crafts National 30 is sponsored by the Central Pennsylvania Festival of the Arts, Pennsylvania Council on the Arts, Zoller Gallery, the School of Visual Arts and the Office of Summer Sessions at Penn State.

See "Arts" on page 11

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, June 20
Music at Noon, Fisher Plaza. Bruce and Jesse Young, folk fiddle, guitar.
HUB "Distinctive Styles" concert, noon, Fishbowl. Edgar Cruz, classical, non, rock music.
Pennsylvania Centre Stage, 8 p.m., Pavilion Theatre. "Forever Plaid." Continues through June 29. For tickets, call (814) 863-0255.
Ice Skating "Diversions," 8-11 p.m., Penn State Ice Rink.
Friday, June 21
Ice Cream "Diversions," 7-8 p.m., Creamery Patio. Urban Fusion Jazz Band.
Saturday, June 22
Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium. Orchestra Concert. For tickets, call (814) 863-0255.
Sunday, June 23
Music at Penn's Woods, 3 p.m., Eisenhower Auditorium. Chamber Music Concert. Admission is free.
Monday, June 24
Dance Aerobics "Diversions," 8:30-10:30 p.m., White Bldg. Gymnasium.
Tuesday, June 25
Music at Noon: Fisher Plaza. Arthur Goldstein Jazz Quartet.
Wednesday, June 26
Summer classes begin: 6-week session.
HUB "Distinctive Styles" Concert, noon, HUB Fishbowl. The Jive Bombers, blues and swing for the 1920's, 30's, and 40's. Admission is free.
Public lecture by Jane Smiley, 7:30 p.m., Schwab Aud. Author of "Moo" and "A Thousand Acres."
Thursday, June 27
Music at Noon: Fisher Plaza. K-Jazz Quartet.
Ice Skating "Diversions," 8-11 p.m., Penn State Ice Rink.
Friday, June 28
Ice Cream "Diversions," 7-8 p.m., Creamery Patio. Rick Victor Quintet, contemporary. Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium. Chamber Music Concert. For information, call (814) 863-1118.
■ Pennsylvania Centre Stage, 8 p.m., the Playhouse. "Man of La Mancha," through July 13. For tickets, call (814) 863-0255.
Saturday, June 29
Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium. Orchestra Concert. For tickets, call (814) 863-0255.
Sunday, June 30
Music at Penn's Woods, 3 p.m., Eisenhower Auditorium. Chamber Music Concert. Admission is free.
Monday, July 1
Dance Aerobics "Diversions," 8:30-10:30 p.m., White Bldg. Gymnasium.
Tuesday, July 2
■ Music at Noon: Fisher Plaza. Calypso Trio.
Thursday, July 4
Fourth of July holiday.
Friday, July 5
Ice Cream "Diversions," 7-8 p.m., Creamery Patio. Tarnished Six, dixieland.
Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium. Chamber Music Concert. For information, call (814) 863-1118.
Saturday, July 6
Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium. Orchestra Concert. For tickets, call (814) 863-0255.
Sunday, July 7
Music at Penn's Woods, 3 p.m., Eisenhower



On display

"Cathaum Theatre Playbill," loaned by Sidney Friedman, is on display as part of the "Centennial State College Remembers, 1896-1996" at the Palmer Museum of Art on the University Park Campus July 2 through Aug. 25.

Auditorium. Chamber Music Concert. Admission is free.

Wednesday, July 10

■ Freedom Theatre's Theatre for Young Audiences, noon-1 p.m. and 2-3 p.m., Festival Shell. Presenting "The Traveling Black History Show." Free admission.

Entomology "Catch the Bug," 7 p.m., 101 ASI. "Sick of Bugs," find out what they have and how to keep from getting it.

Thursday, July 11

HUB "Distinctive Styles" Concert, noon, HUB Fishbowl. Rick Kelley, sing- and dance-along to Motown and rhythm and blues. Free admission.

■ Rock Paintings Slide Show — Paul Taylor, 10:30-11:30 a.m., Carnegie Cinema. Free admission.

Friday, July 12

■ Noo Voo Duo, 5:30-7 p.m., Festival Shell. Free admission.

Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium.

■ Mama Jama, 8-10 p.m., Festival Shell. Free admission.

Pennsylvania Centre Stage, 8 p.m., Pavilion Theatre. For tickets, call (814) 863-0255. Through July 27.

Saturday, July 13

Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium. Orchestra Performance. For tickets, call (814) 863-0255.

■ Entrain, 8-9:30 p.m., Festival Shell. Free admission.

Sunday, July 14

Office of Summer Sessions Blues Festival, 2:30-3:30 p.m., Festival Shell. Presenting "Oxford Blues." From 4-5 p.m. pre-

sending "Code Blue," and from 5:30-7 p.m. presenting "Deborah Coleman and the Thrillseekers." Free admission.

Monday, July 15

Dance Aerobics "Diversions," 8:30-10:30 p.m., White Bldg. Gymnasium.

Tuesday, July 16

Music at Noon, Fisher Plaza. Red Apple Juice, bluegrass, country, swing.

HUB "Distinctive Styles" Concert, noon, HUB Fishbowl. Dixie Power Trio, dixieland-style for the 21st century. Free admission.

Wednesday, July 17

"Opera for the Movies," 7:30 p.m., Music Bldg. Recital Hall. "The Magic Flute," by W.A. Mozart.

Public lecture, 1 p.m., 123 Chambers Bldg. Drs. Thomas on "Do They Sometimes Get It Right? Films and Their Portrayal of School Principals."

Thursday, July 18

Music at Noon, Fisher Plaza. Easterly Chamber Players, classical.

Friday, July 19

Ice Cream "Diversions," 7-8 p.m., Creamery patio. Deacons of Dixie.

SEMINARS

Thursday, June 20

Summer Seminar, 4 p.m., Penn State Room, Nittany Lion Inn. Robert T. Simpson on "Molecular Medicine." Reception at 3:30 p.m.

Monday, June 24

■ Center for Russian and East European Studies, 2:30 p.m., 124 Sparks Bldg. Catherine V. Chvany on "Deconstructing Agents and Subjects."

Thursday, June 27

Summer Seminar, 3:30 p.m., Penn State Room, Nittany Lion Inn. Steven K. Thompson on "Adaptive Sampling."

Thursday, July 18

Summer Seminar, 3:30 p.m., Penn State Room, Nittany Lion Inn. Matthew A. Bershadsky on "Weighing Galaxies over Cosmic Time Scales."

CONFERENCES

Thursday, June 20

"Sports Nutrition for Young Athletes — A Guide for Parents" workshop, Penn State Recreation. Kristine Clark will outline proper nutrition for young athletes. To register, call (800) 778-8632.

Friday, June 21

NCTLA — What Works: Education in the 21st Century, The Penn State Scanlon. Through June 23.

Saturday, June 22

Onsite/Inflight: Nature, Humanity and Time, The Penn State Scanlon. Through June 24.

Sunday, June 23

Graduate Minority Health Careers Institute, University Residence Halls. Through June 27.

Communications Workers of America District 13000, University Residence Halls. Through June 28.
Engineering Education '96, The Penn State Scanlon. Through June 28.
The Issues We Face Elderhostel, University Residence Halls. Through June 29.

Monday, June 24

PA Rural Health, The Nittany Lion Inn. Through June 26.

4-H Ambassadors, University Residence Halls. Through June 26.

Workshop on Planning and Designing Long-lead Mining, The Penn State Scanlon. Through June 26.

Bug Camp for Kids, University Residence Halls. Through June 27.

Modern Bearing Technology Short Course, The Penn State Scanlon. Through June 28.

Tuesday, June 25

Separation and Purification Strategies for Biotechnology Products, 8:30 a.m., Frear Lab. Hands-on biotechnology training workshop. To register, call (800) 778-8632. Through June 28.

Separation and Purification Strategies, The Nittany Lion Inn. Through June 28.

Performative Subjectivities, The Penn State Scanlon. Through June 29.

Wednesday, June 26

Jobs and Justice, The Penn State Scanlon. Through June 29.

Thursday, June 27

Dietetics in Distance Education, The Penn State Scanlon. Through June 29.

Saturday, June 29

Bridges to the Future, University Residence Halls. Through July 20.

Minority Health Careers Institute, University Residence Halls. Through July 28.

Sunday, June 30

Resonance Ionization Spectroscopy and Its Applications, The Penn State Scanlon. Through July 5.

Conservation Leadership School, Stone Valley Recreation Area. Through July 13.

Governor's School for Agricultural Sciences, University Residence Halls. Through Aug. 3.

July 11

Ag in the Classroom, ASI Bldg. Through July 26.

Food and Ag Sciences Summer Workshop, ASI Bldg. Through July 27.

EXHIBITS

HUB

Formal Galleries:

■ Images '96, June 25 through July 19.

Palmer Museum

"The Wood Engravings of Warren Mack," July 9 through Aug. 5, 1897.

"Centennial: State College Remembers, 1896-1996," July 2 through Aug. 25.

"Selections of Contemporary Art from the Pincus Collection," July 2 through Dec. 15.

"Recent Gifts: The Jack Bershad Poster Collection," through June 30.

"Beyte Saar: Tangled Roots," through July 21.

Zoiler Gallery:

■ Crafts National '96. Through July 21.

■ Central Pennsylvania Festival of the Arts

■ Reflects an international perspective

July 10-14, 1996

30th Annual Central Pennsylvania Festival of the Arts

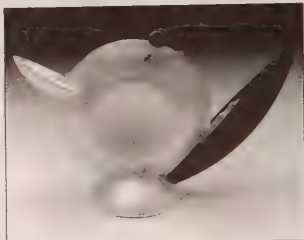
University exhibitions, events complement arts festival fare

The 30th Central Pennsylvania Festival of the Arts will feature a plethora of art, crafts, music, food and fun packed into five days and is expected to draw hundreds of thousands of people to State College and the University Park Campus.

Units within the University have sponsored several performances in this annual town-gown event July 10 through 14. There's also plenty of art and entertainment surrounding the festival that extends beyond those dates.

Here's a small sampling of those offerings:

■ "Man of La Mancha," 8 p.m. June 28, 29, July 2-6, and 9-13 in The Playhouse. Previews will be 8 p.m. June 26 and 27. Saturday matinees are 2 p.m. July 6 and 13. Prices are \$24 for non-students and \$21 for students; previews are \$21 and \$18.



Crafts National 30

Crafts National has been a part of the arts festival from the beginning. This year, "Teapot" by Shiang-shin Yeh of the San Diego State University School of Art is among the featured pieces on display.

■ Crafts National 30: through July 21, Zoller Gallery, 101 Visual Arts Building. This is a juried exhibition sponsored by the Central Pennsylvania Festival of the Arts and the Col-

lege of Arts and Architecture. Free.

■ Images '96: June 25 through July 19, HUB Galleries. This fine arts exhibition features paintings, drawings, prints, pho-

tographs and sculpture created in 1995 and this year by artists from the Mid-Atlantic region. Free.

■ The Penn's Woods Orchestra and Chamber Music Festival runs June 22 to July 13. For a complete schedule and ticket information, check page 10 of the May 23 *Intercom* or the arts listings on the *Intercom* Web site (go to <http://www.ur.psu.edu/> and click on the *Intercom* button), or call (814) 863-0255.

■ In honor of State College's Centennial Celebration, the Palmer Museum presents the exhibition Centennial! State College Remembers, 1896-1996 from July 2 through Aug. 25. Free.

For more University-related arts festival events, please see the University Park Calendar on page 9 and additional stories on page 8.

Festival facts

Festival dates

- Wednesday, July 10: Children and Youth Day
- Thursday, July 11, through Sunday, July 14: Sidewalk Sale and Exhibition, featuring 325 fine artists and craftspeople

Buttons

■ Festival buttons are required for admission to the more than 30 events taking place in Schwab Auditorium and on the Memorial Field Stage, and will be honored on a first-come, first-served basis.

■ Children age 5 or younger do not need a button for admission to button-restricted events.

■ Buttons cost \$4 until July 1, \$5 thereafter. Button revenue is used to help pay for all festival performances.

Parking

Parking for the arts festival will be in Lot 44, across from Beaver Stadium. Rates are \$5 per day or \$10 for a pass good throughout the festival. Faculty/staff parking permits also will be honored.

Shuttle information

CATA will provide free express shuttle service between parking lot 44 (across from Beaver Stadium) and Schlow Library on Beaver Avenue. These are the only two stops the shuttles make.

■ Wednesday, July 10: Shuttles depart every 10 minutes from Beaver Stadium 8:25 a.m. to 10:20 p.m., and from Schlow Library 8:37 a.m. to 10:32 p.m.

■ Thursday, July 11, through Saturday, July 13: Shuttles depart every five minutes from Beaver Stadium 8:27 a.m. to 12:20 a.m., and from Schlow Library 8:27 a.m. to 12:32 a.m.

■ Sunday, July 14: Shuttles depart every 10 minutes from Beaver Stadium 9:25 a.m. to 10:20 p.m., and from Schlow Library 9:37 a.m. to 10:32 p.m.

Road closings

The following roads will be closed to vehicles during the arts festival:

- South Allen Street from College Avenue to Fairmount Avenue;
- Fairmount Avenue from South Allen Street to Fraser Street;
- Fraser Street from Fairmount Avenue to East Foster Avenue;
- Burrows Road from College Avenue to Pollock Road; and
- most of Pollock Road.

Poster

continued from page 1

and performing arts to represent all aspects of the festival. And he tries to make it colorful because it is a celebration of the arts.

In past years, the festival directors have given Sommesse themes to work with. This year, however, he was on his own.

"This year, I used handwritten type and added to it figures in the shapes of letters."

Sommese volunteered to design his first arts festival poster in 1973 or 1974. Back then, he also designed the programs, call for entry brochures, invitations and buttons for the festival.

In the beginning the posters were functional, serving as advertisements for the festival. Later, they were produced to be sold.

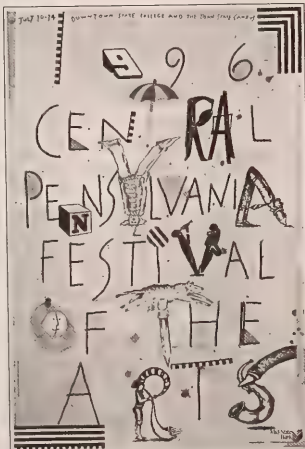
"Now, a sponsor pays to have them produced and they're given away free as commemorative items," Sommesse said. "And their size has been standardized. They used to be smaller, but now are 24 inches by 36 inches, which is a readily-available poster frame size."

This year, Mid State Bank is the official sponsor of the arts festival poster.

Sommese has a couple of favorites among his arts festival posters.

"There've been two I especially liked. The one with the jester holding a palette that's dripping into a river is a favorite, and I also really loved the one with cut paper and the shadow of the jester on it," Sommesse said. He created both in the 1980s.

Still, his latest creation holds a special place in his heart. "I do very much love this year's poster. I think it has a very beautiful color palette. I try to make each of the posters very playful, lots of fun, because that's what the festival is all about."



This year's poster

Arts

continued from page 8

MetaStages drama camp accepting registrations

MetaStages Summer Drama Camps for children will be held at the Pavilion Theatre on the University Park Campus in late July and August.

This year's summer camp dates have been set for July 29 through Aug. 2; Aug. 5 through 9; and Aug. 12 through 16. Sessions run from 10 a.m. to 4 p.m. each day and are open to students ages 9 to 12 and 13 to 18.

Students receive performance training from professionals in acting, voice, movement, mime and masks as they rehearse and perform plays from various cultures. Camps culminate with an afternoon of performances.

Class size is small and strictly limited. For more information and registration, contact Joann Leonard, MetaStages director, at (814) 867-8390.

MetaStages is an outreach program of the Department of Theatre Arts and a continuing and distance education service of the College of Arts and Architecture.

Exhibition celebrates State College centennial

In honor of State College's upcoming 100th birthday, the Palmer Museum of Art on the University Park Campus is presenting *Centennial! State College Remembers, 1896-1996* from July 2 through Aug. 25. This exhibition, featuring more than 200 historical objects, will take visitors back to the origins of State College Borough and introduce them to the characters, events and monuments of the town's formative years.

Centennial! includes fine art objects, historical documents, vintage photographs and a wide array of artifacts. Most of the objects have been borrowed from local collectors, though several pieces are coming from out of state. More than 50 lenders have contributed to the exhibition.

Art historian Joyce Henri Robinson is guest curator for the exhibition.

On Saturday, July 27 from 2 to 4 p.m., the Palmer Museum of Art will hold a community celebration of *Centennial! State College Remembers, 1896-1996*. The open house will feature guided tours of the exhibition, entertainment by the Nitany Knights and the Little German Band and refreshments on the piazza in front of the museum. Mayor Bill Welch, longtime State College resident, will offer a few remarks at 3:30 p.m. at the museum.



At the Palmer

"The Wood Engravings of Warren Mack" are on display from July 9 through Jan. 5, 1997, at the Palmer Museum on the University Park Campus. Here, Mack is seen in a 1944 photo with some of his work.

Photo courtesy of Pennsylvania State University Archives

Photo exhibit at Abington-Ogontz

The award-winning photography of Lita Linzer Schwartz, professor emerita of educational psychology at the Penn State Abington-Ogontz Campus, is on display through July 31 at the campus.

The exhibit, titled "Higher Than A Kite: Seeing the Andes," includes 17 color photographs from Schwartz's March 1996 trip to Peru and Bolivia. Subjects range from studies of women at a Bolivian street market to views of Machu Picchu.

Housed in the Woodland Library, the exhibit is on display Monday through Thursday, 8 a.m. to 8 p.m. and Friday, 8 a.m. to 5 p.m. Schwartz has participated in numerous group exhibits, three one-woman shows and has several published photographs to her credit. A collection of furniture art, made by Abington-Ogontz student Jeff Snyder, is also on display at the library.

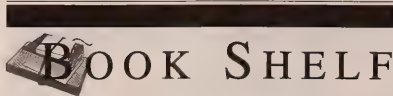
Though the library is generally closed on weekends through the summer, arrangements can be made for private viewing on the weekend by contacting head librarian Nancy Evans at (215) 881-7425 or via e-mail at nhe@psuia.psu.edu.

Contemporary Art at Palmer Museum

Abstraction to Figuration: Selections of Contemporary Art from the Pincus Collection will be on view at the Palmer Museum of Art on the University Park Campus from July 2 through Dec. 15. The exhibit will include 26 works of art that are among the finest examples of New York School painting and contemporary art practice. David and Gerry Pincus of Wynnewood, Pa., are major collectors of contemporary art. David Pincus is a 1948 Penn State alumnus and an Alumni Fellow.

The abstract paintings of the New York School were roundly criticized in the 1940s and 1950s. However, despite the negative critical response historians agree that the New York School painters and sculptors of the post-war period elevated American art to a new international prestige. The Palmer will exhibit works from the most important artists of this circle.

The exhibition also will include abstract sculpture, photo-realism, non-traditional media and retrospective art.



The image of Eleanor Roosevelt as an activist who served as the conscience of her country is transformed in a new book authored by a Penn State Harrisburg faculty member.

Casting Her Own Shadow: Eleanor Roosevelt and the Shaping of Postwar Liberalism by Alida Black, examines

the former first lady's role as a powerbroker and political insider who helped shape the Democratic party's liberal agenda in the postwar years.

Published by the Columbia University Press, the book traces Mrs. Roosevelt's career after she left the

White House following the death of her husband. Drawing on new information and exhaustive research of existing scholarship, Black shows how Mrs. Roosevelt developed her own power base and prodded moderate liberals, including JFK, to aggressively pursue both civil rights and economic and political reform.

Joe L. Kincheloe, associate professor of education; Aaron D. Gresson III, associate professor of education; and Shirley R. Steinberg, lecturer at Adelphi University and educational consultant, are co-editors of *Measured Lies: The Bell Curve Examined*, published by St. Martin's Press.

Measured Lies is a rebuttal of Herrnstein and Murray's book, *The Bell Curve*, which suggests that certain groups of children are genetically unable to learn because of their race and thus are not good candidates for federal and state aid to education.

The book consists of original essays by a number of Penn State faculty, among them William E. Cross Jr., Henry Giroux, Robert M. Hendrickson, Catherine A. Lugg, Kyle L. Peck and Ladislav Sella. *Measured Lies* has been described as "a searing indictment of racism and the way individuals can use it to subvert truth and amass power."

Awards

Recipient named for Caldwell service award

Dawn Boyer, lead applications programmer analyst in the Office of Administrative Systems (OAS), is the fifth recipient of the Thomas R. Caldwell Service Award for Excellence.

The award honors **Tom Caldwell**, a senior systems analyst for 15 years, who was killed in a house fire April 10, 1991.

All OAS employees are eligible for the award.

Nominees are judged on dedication to their job, interpersonal relations and outstanding job knowledge.

On the selection of Boyer for the honor, **Robert Crothers**, deputy director of OAS said, "Dawn is a dedicated and extremely knowledgeable employee. She is always ready to try something new and offer assistance to her fellow programmers. Dawn is very thorough with her analysis, always paying particular attention to detail. She is also very technical. Her job knowledge and application knowledge are outstanding."

Boyer has been a University employee for nearly 13 years. A permanent plaque listing the previous honorees is on display in the lobby of 31 Shields Building on the University Park Campus.



Dawn Boyer

Alumni society honors trustee for service

University Trustee **Barry K. Robinson** '67 pre-law has been honored by the Liberal Arts Alumni Society with its 1996 Service to Penn State Award. Robinson has been a member of the University's Board of Trustees since 1989.

The award recognizes an alumnus or alumna of the College of the Liberal Arts who has made significant contributions of time and talent to the college and/or University.

Robinson, deputy general counsel to the Recording Industry Association of America in Washington, D.C., has served two consecutive three-year terms on Alumni Council, and during that time chaired the marketing committee that developed the MBNA affiliate credit card, which resulted in millions of dollars for Penn State projects. He was liaison to Alumni Council for the Board of Trustees and was vice chair of the board's finance committee. He currently serves as chair of the Education Policy Committee of the board. He also has been involved in development efforts for Penn State, including membership on the Library Development Board.

He also has served as chair of the Student Affairs Committee of the Penn State Club of Greater Washington and serves as vice president for the national African American Alumni Interest Group.



Barry K. Robinson

Penn College wins awards for superior public relations work

Pennsylvania College of Technology's College Information & Community Relations Office recently received a silver and two bronze awards for superior work in public relations and advertising.

Penn College won the silver in the 11th Annual Admissions Advertising Awards for the television program "Penn College & You." Sponsored by Admissions Marketing Report Publications, the Admissions Advertising Awards are the oldest advertising awards in the education field and annually receive more than 1,200 entries from schools across the country.

"Penn College & You" is a 60-minute interview/call-in program that allows college faculty and staff to share valuable information on timely topics with members of the public. The program is hosted by **Tom Speicher**, a Penn College staff writer.

Penn College also received two bronze Paragon Awards from the National Council for Marketing and Public Relations in the newsletter and video advertisement/PSA categories. Recognizing outstanding achievement in communications for two-year colleges, the Paragon Awards received more than 1,200 entries from colleges throughout the country for the 1996 competition.

The spring and summer '95 editions of Penn College's quarterly magazine *One College Avenue* were cited in the newsletter category; the magazine is under the

Three at Penn College cited for job performance

Three Pennsylvania College of Technology Employees were honored for their superior job performance and service with the newly established Distinguished Staff Awards. One honoree was selected from each of the college's three staff classifications: administrative, professional and technical (APT); classified; and service staff. Honorees were: **Jacquelyne D. Ellis**, **Beatrice E. Hilliard** and **Louis E. Myers**.

Ellis, director of nursing, received the award for her work within the APT area. **Ellis** began her employment at the college in 1972 as an instructor of practical nursing. Throughout her years at the institution, she worked in a number of faculty and administrative positions within the nursing program. In 1994, she was named interim

director of nursing, followed by director of nursing in 1995.

Hilliard, secretary to the associate dean for technology education, assistant dean for information technology and the faculty development specialist, was selected as a distinguished staff member in the classified area. **Hilliard** began at the college in 1977 as division secretary to math, science and allied health. She has since served as secretary for a number of top administrators.

Myers, shipping/receiving and supplies worker, earned recognition for his performance in the service area. **Myers** joined the college in 1984 as a general maintenance worker, transferred to custodian in 1988, and accepted his current position within the college's warehouse in 1990.

direction of **Elaine Lambert**, director of communications. College Information & Community Relations staff contributing to those issues included: **Lisa Engel**, communications assistant; **Heidi Mack**, graphic artist/designer; **Cindy Meisel**, staff writer/photographer; and **Park Williams**, production printer.

The Paragon Awards cited a college television commercial

titled "Degrees that Work" for the bronze in the video advertisement/PSA category.

The 30-second spot was devised by Speicher using video footage photographed by **Jim Gugino**, Penn College video engineer. **Michael Strunk**, of Cox Communications, edited the commercial, which aired throughout the fall on the local cable system.

Library assistant garners University Libraries Award

Jacqueline Y. Peagler, library assistant in the Earth and Mineral Sciences Library, is the 1996 University Libraries Award recipient.

Peagler was chosen for the award by her colleagues on the faculty and staff of the Libraries in recognition of her commitment to diversity, hard work, dedication, teamwork and an approachable and encouraging management style.

Peagler joined the University Libraries in 1984. Throughout her employment, she has actively participated on committees concerned with diversity and now serves as the co-facilitator of the Libraries Diversity Committee. She was a member of The Campaign for the Library internal committee and served on the Libraries Staff Association, as treasurer and president. She is currently a member of the Pennsylvania Library Association.

Peagler attended Chatham College and Thiel College where she studied mathematics.



Jacqueline Y. Peagler

Professor lauded for research, teaching prowess

Budugur Lakshminarayana, Evan Pugh professor of aerospace engineering, has received the 1996 American Society of Mechanical Engineers Fluids Engineering Award.

The award, which honors an individual for their years of research, practice and teaching in the field of fluids engineering, was presented to Lakshminarayana for "contributions 'that have directly benefited practitioners in the industry and fellow researchers worldwide' and for his instruction of students who now occupy key positions throughout the turbomachinery industry."

Awards

Three named Fulbright Scholars

Two College of Engineering faculty have been named senior Fulbright Scholars this year, and a faculty member at Penn State Harrisburg has been selected for a Fulbright Scholar award in Japan for the 1996-97 academic year.

Simon Bronner, distinguished professor of American studies and folklore, is a widely published author on American and Pennsylvania folk life and culture. He has been a faculty member at Penn State Harrisburg since 1981, and will teach classes in American folklore, ethnic history and material culture at Osaka University.

John D. Mathews, professor of electrical engineering and director of the Communications and Space Sciences Laboratory, and **M. Albert Vannice**, Merrell R. Fenske professor of chemical engineering, each received Fulbright awards to conduct research in Scandinavia and Germany, respectively.

Mathews research, to take place over a four-month period, will delve into the subject of high-latitude ionospheric plasma layering processes. Since 1969, Mathews has been actively involved with the Arecibo Observatory in Arecibo, Puerto Rico, where he and colleagues have inves-

tigated low- and middle-latitude ionospheric layering. He is the former chairman of the Arecibo Advisory Board and Visiting Committee which sets policy and oversees research and planning at the Arecibo National Astronomy and Ionosphere Center.

Mathews received a B.S. with honors in physics from Case Western Reserve University in Cleveland in 1969, and stayed on at Case Western to receive his M.S. and Ph.D. from the Department of Electrical Engineering and Applied Physics in 1972. He has been with Penn State since 1987 and is a senior member of the Institute of Electrical and Electronic Engineers.

Vannice will engage in collaborative research at the University of Munich. His research will use new methods of analyzing the potential for rare earth oxides to reduce dangerous emissions that lead to acid rain and photochemical smog linked with harmful ozone formation.

In 1990, Vannice received the Humboldt Research Award, intended to promote long-term specialized cooperation between German researchers and researchers from other countries. He also is the recip-

ient of the 1986 Professional Progress Award, presented by the American Institute of Chemical Engineers.

He received a B.S. with high honors from Michigan State University in 1964. He received an M.S. in 1966 and a Ph.D. in 1970, both from Stanford. Before coming to Penn State in 1976, Vannice spent five years on the staff of Exxon Research and Engineering Company's corporate research labs in Linden, N.J.

In addition to nine patents, Vannice is responsible for having published more than 170 articles and has presented more than 100 papers at technical and professional meetings. He is vice president of the Catalysis Society of North America and an associate editor of the *Journal of Catalysis*. He is a member of the American Chemical Society and the American Institute of Chemical Engineers, a consultant to the Eastman Kodak Co. and the DuPont Chemical Co.

This year marks the 50th anniversary of the Fulbright Scholar Program, which offers American university and college faculty, professionals and independent scholars the opportunity to teach, study or research abroad.

Liberal Arts Alumni Society lauds six faculty

Six faculty members have been honored by the College of the Liberal Arts Alumni Society for teaching, research and advising. Honorees include:

■ **Eric W. Bond**, professor of economics, who received the Distinction in the Social Sciences Award;

■ **Patricia Draper**, professor of anthropology and human development, who received the Distinction in the Social Sciences Award;

■ **Deborah L. Clarke**, associate professor of English and women's studies, who earned the Outstanding Adviser Award;

■ **Karen E. Johnson**, associate professor of speech communication, who garnered the Outstanding Teaching Award; and

■ **Cynthia M. Finch**, senior lecturer in the Department of Speech Communication, and **Stephanie L. Hollick**, lecturer in the Department of English, who both received the Outstanding Teaching Award for Non-Tenure Line Faculty.

Bond, who's research is concerned with the effects of trade and tax policy on international trade and investment, has twice served on World Bank study teams on the use of investment incentives to attract foreign investment.

Draper was cited for her field research on 'Kung San, a hunting and gathering group in western Botswana, and for her theoretical work on applying ideas from evolutionary ecology to the study of human mating and parenting behaviors.

Clark, who also received the Undergraduate Student Government Academic Assembly Award for Excellence in Advising in the spring, was cited for her outstanding work in helping students recognize their potential.

Johnson was lauded for her contributions to teaching effectiveness throughout the University and for assisting students in numerous disciplines.

Finch, a member of the faculty since 1984, regularly teaches Speech Communication 100, but also has developed a highly successful 400-level diversity course on gender and communication.

For 14 years, Hollick has taught basic writing, providing underprepared students with the skills needed to succeed.

Top educator recognized

The DuBois Educational Foundation named **John R. Schneider** the Educator of the Year for 1996.

The award, initiated in 1982, recognizes a member of the DuBois Campus faculty who best demonstrates dedication and excellence in teaching. Schneider is an instructor in engineering.

The winner is chosen for an ability to establish a rapport through enthusiasm, compassion and respect that inspires students to the highest levels of achievement; classroom leadership; lecturing and laboratory skills; and clarity and fairness in evaluating and grading student work.

Hazleton Campus cites assistant professor of biology

Dianna Bourke, assistant professor of biology at the Penn State Hazleton Campus, has received the "Teaching Excellence Award" from the Hazleton Educational Council for outstanding teaching activities at the campus.

Bourke, who joined Penn State in 1991, helped organize the campus WISEST Women organization in 1994 for students in math and science to provide mentoring and other



Dianna Bourke

informal contacts with faculty and women in science. Bourke is seen as one of the leaders in innovation in teaching at the campus, using computers in teaching biology to help students participate and see the process.

In addition to teaching and research in the field of muscle development, Bourke is active in the theatre productions on campus and designs and constructs most of the costumes.

Staff assistant earns award for service

Harriet L. Galida is the winner of the 11th annual PSEOP "Outstanding Office Professional" Award. This award recognizes an office employee who has provided exceptional meritorious service on behalf of Penn State. Winners are cited for their professionalism, industrious-

ness, leadership skills, teamwork, resourcefulness, problem-solving skills, reliability, quality of work, job competency, continuous quality improvement, professional development, positive attitude and service on Penn State committees and charities.

Galida has served as staff assistant to the director of academic affairs at the Penn State Fayette Campus since 1976. She has been with the University for 21 years, beginning on a part-time basis in 1975.

Penn Staters

James Beierlein, professor of agricultural economics, and **Dennis Calvin**, professor of entomology, have been selected to serve on the steering committee of the USDA National Initiative for Managing Change in Agriculture.

Donald A. Bryant, Ernst C. Pollard professor of biotechnology and professor of biochemistry and molecular biology, has been selected to serve a two-year term as chair of the National Institutes of Health Division of Research Grants Committee on Microbial Physiology and Genetics. The committee reviews grant applications submitted to the institutes, makes recommendations to the appropriate NIH advisory council and surveys the status of research in particular scientific fields.

Cengiz Camci, assistant professor of aerospace engineering, was an invited lecturer at the von Karman Institute for Fluid Dynamics in Belgium, giving four lectures over a four-day period. The lectures were based on research involving liquid crystal thermography that Camci and graduate students K. Kim, Brian Wiedner, and Dean Rizzo performed over a 10-year period.

Andrew Clark, professor of biology, presented an invited paper titled "Molecular Population Genetic Aspects of Self-Incompatibility" at the International Symposium of the Society for the Study of Species Biology in Kyoto, Japan.

Ursula Davis, assistant professor of communication at Penn State Erie, The Behrend College, presented a paper, "Art Simmons in Paris," at the Sorbonne Conference on African American Music and Dance in Paris.

Joy Ellwanger, research support technician in veterinary science, was elected 1996 chair of the Pennsylvania State Board of Veterinary Medicine.

Dr. C. McColister Everts, chief executive officer, senior vice president for health affairs and dean of the College of Medicine at The Hershey Medical Center, was one of three recipients of honorary degrees from Allegheny College. Dr. Everts received an honorary doctor of humane letters degree. The recipients addressed 363 graduates at the liberal arts college in northwestern Pennsylvania during the May commencement ceremony.

Jawaid Haider, associate professor of architecture, has been awarded a grant from The Graham Foundation for Advanced Studies in the Fine Arts in partial support of his ongoing research on children's museums as places that stimulate and educate the young through creative hands-on exhibitions. The

Graham Foundation is broadly interested in educational areas directly concerned with architecture — primarily at an advanced level — and with other arts that immediately contribute to architecture.

Elizabeth Hanley, assistant professor of exercise and sport science, served as dance workshop coordinator at the 36th International Session for Young Participants at the International Olympic Academy, Ancient Olympia, Greece. The special subject of the session will be: "Athens Games 1896-Atlanta Games 1996." Hanley highlighted the contribution of Greek ancient civilization to world culture through the medium of dance.

Arthur Humphrey, professor of chemical engineering and biotechnology consultant—IRO, is the 1996 recipient of the John Fritz Medal to be presented at the November meeting of the American Institute of Chemical Engineers in Chicago.

Humphrey is being awarded the medal for his pioneering efforts in the field of biochemical engineering, for outstanding service to the profession and nation and for effective technology transfer to industry through teaching and consulting. Civil, electrical, mechanical, chemical and materials engineers are eligible for the medal, which is sponsored by the Founder Engineering Societies and the United Engineering Trustees.

Kay Johnson, lecturer in economics at Penn State Erie, The Behrend College, participated in a 20-member national case-writing session in Denver. Cases written in this session will be capstones of the 10-hour national certification examination to become designated as a certified financial planner.

Bryce Jordan, president emeritus of Penn State and distinguished alumnus of The University of Texas, is the recipient of the UT College of Fine Arts E. William Doty Award—the highest honor bestowed by the UT College of Fine Arts. Jordan was lauded for his leadership efforts in advancing the arts at UT and for his advocacy of arts education.

Akhlesh Lakhtakia, associate professor of engineering sciences and mechanics, has been named a Fellow of SPIE-The International Society for Optical Engineering, in recognition of his research on optical materials.

Jeffrey S. Lannin, professor of physics, has been elected a Fellow of the American Physical Society. Lannin's election to the society was based on his pioneering contributions toward the understanding of the structure and dynamics of liquids, amorphous solids and fullerenes, as deduced from Raman and neutron scattering methods.

E. Willard Miller, emeritus professor of geography and associate dean for resident instruction in the College of Earth and Mineral Sciences, has been awarded The George C. and Kathryn Shottfistall Science Leadership Award by the Pennsylvania Academy of Sciences.

Three members of the Department of Spanish, Italian and Portuguese presented papers at the International Symposium on Contemporary Literature of the African Diaspora organized by the University of Salamanca, Spain.

Laurence Prescott, associate professor of Spanish and African American studies, spoke on "The Color of Literature: Afro-Colombian Writers and the Critics." **Rosalía Cornejo-Pariego**, assistant professor of Spanish, presented "Female Difference and Colonial Experience in 'Cuando las mujeres quieren a los hombres' by Rosario Ferre;" and **Clare McAllister-Raeburn**, doctoral student in Spanish, spoke on "Unlocking the (Mother) Within: An Appraisal of Miscegenation in Manuel Zapata Olivella's 'El fusilamiento del diablo'."

Rama Radhakrishna, research associate in agriculture and extension, received the outstanding research paper award for his paper titled "Understanding Socio-Economic Changes in Rural Communities: Implications for Agricultural and Extension Education," at the 12th annual meeting of the Association for International Agriculture and Extension.

Radhakrishna also has joined the editorial board of the *Journal of International Agricultural and Extension Education* for a two-year term.

Rustum Roy, Evan Pugh professor of the solid state and professor of geochemistry, gave the plenary addresses at three international conferences: the International Sol-Gel Workshop in Madras, India; the International Workshop on Solvothermal and Hydrothermal Reaction in Takamatsu, Japan, where he spoke on "Fifty-Year Perspective on Hydrothermal Research;" and the International Refractories Conference in New Delhi, India. For both conferences in India, Roy used a videotape live audio procedure for his presentations, which allowed a tape of his talk with graphic demonstrations to be played and then a question/answer session live via telephone link.

Roy also has received the Ellis Island Medal of Honor. Selected as one of two Indian Americans "who have made significant contributions to our nation's heritage," Roy joined Gov. George Pataki of New York, U.S. Reps. Charles Rangel and Daniel Burton, and corporation leaders, among others as this year's honorees.

25-year Awards



P. Richard Althouse



Joseph M. Holobinko



Richard D. Sheeder



William S. Smith



Larry Larsen



Christine Templeton

Observing 25 years of service at the University are, from left, P. Richard Althouse, budget officer of the University; Joseph M. Holobinko, senior budget planning specialist; Richard D. Sheeder, associate director for Decision Support Systems; and William S. Smith, senior director for budget, all in the Office of Budget and Resource Analysis; Larry Larsen, biomedical electronics technician, The Hershey Medical Center; and Christine Templeton, coordinator of college relations, College of Communications.

Research

Correctional boot camps are effective

By PAUL A. BLAUM
Public Information

Correctional boot camps, viewed by many as a cost-effective alternative to prison, allow eligible inmates to have their sentence reduced to six months, then be released on parole. Boot camps sound good in theory, but do they work?

“Boot camps beat traditional incarceration on three counts,” Frank Clemente, professor of sociology, said. “Prisoners are released sooner, their rate of re-incarceration is lower and, if they do return to prison, they are less likely to have committed a serious crime such as robbery or murder.”

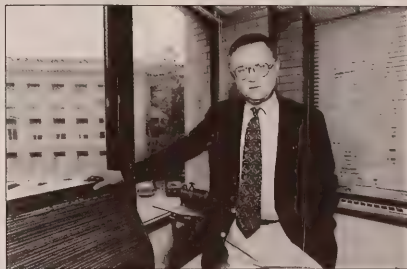
“Apart from reducing the level of human misery, boot camps may also save the Commonwealth millions of dollars a year,” Clemente said.

These findings came from a three-year study conducted by Clemente with the help of John H. Kramer, associate professor of sociology and executive director of Pennsylvania Commission on Sentencing; research associate Jan Hendrickson-Smith; and Henry Sontheimer of the Pennsylvania Commission on Crime and Delinquency.

Clemente and his fellow researchers compared prisoners serving conventional prison terms with “clients” at the boot camp in Quehanna, in rural Clearfield County, which opened in 1992.

“We visited the boot camp 15 times,” Clemente said. “We developed a near-perfect matching system, pairing an individual boot camp prisoner with a comparable prisoner in a state prison. Our study matched the first 106 graduates of Quehanna and 106 inmates from traditional incarceration.”

Graduates of Quehanna spent an average of 285 days in the prison system, compared to the 472 days spent by prison inmates. The boot camp graduates served, on average, 48 percent of their minimum sentence and 19 percent of their maximum sentence, while inmates at standard prisons served 104 percent of their minimum sentence.



Frank Clemente, professor of sociology, has found that inmates who complete correctional boot camps are less likely to return to jail than their counterparts who serve traditional jail time in regular prisons, and if they do return to jail they are less likely to have committed a serious crime.

Photo: Greg Grieco

sentences and 40 percent of their maximum sentence.

As of May 1995, 71 percent of boot camp graduates of Quehanna had not been convicted of another violation, compared to 49 percent of those released from prison, Clemente noted.

Only 23 percent of boot camp graduates had been arrested again for a criminal offense, compared to 39 percent of inmates released from prison. Furthermore, boot camp graduates were far less likely to be convicted again of serious offenses such as drug possession, burglary, theft and assault.

“It costs the state of Pennsylvania \$20,400 a year to house one inmate in a state correctional institution,” Clemente said. “Because boot camp ‘clients’ are released sooner and commit fewer crimes, particularly serious crimes, the state could save \$2 million a year for every 100 convicted offenders that go to boot camp instead of conventional prisons. By 1995, the boot camp program had already saved Pennsylvania millions of dollars.”

Another key benefit is that boot camps alleviate overcrowding, which has burdened state prison systems all over the country.

“Finally, boot camp is in itself a positive experience for the offender,” Clemente said. “Correctional boot camp is physically more demanding than Army boot camp. Tests show that boot camp programs, based on the President’s Council on Fitness, result in an average weight loss of 27 pounds, a 27 percent increase in upper body strength and a 40 percent increase in cardiovascular endurance.”

Candidates for boot camp cannot be currently convicted of homicide, kidnapping, rape, involuntary deviate sexual intercourse or a felony non robbery. The Pennsylvania Department of Corrections automatically excludes inmates who have a history of escapes or violent offenses; are psychologically unbalanced; are in poor physical condition; or have medical problems.

FROM THE EXPERTS

Facts and hints from Penn State’s in the know.

Lawn care tips

Mowing may be a thankless chore, but it reaps benefits if done correctly. Peter Landschoot, associate professor of turfgrass science, said:

“Those who want a nice lawn often are overly concerned with fertilizing and watering. But proper mowing also is an important step toward obtaining strong, vigorous grass that resists disease and weeds.”

Here are some of Landschoot’s moving tips:

■ Check your mower blades. If you haven’t had it sharpened in a year or two, it probably needs it.

■ Make sure your mower is adjusted to between two and three inches in height. Cutting your grass shorter than that makes it more susceptible to heat, disease and drought stress.

■ Leave grass clippings on the lawn. This can reduce the need for fertilizer by as much as one-third — and it saves you from having to bag and dispose of them.

They’re back ...

Periodical cicadas, commonly but mistakenly called 17-year locusts, are preparing to emerge over eastern Pennsylvania. While these mysterious insects are harmless to humans, extension entomologist Gregory Hoover said they can damage shade trees, fruit trees or high-value ornamentals.

“Although adult cicadas are difficult to control, those with trees at risk may want to apply registered insecticides around the time mating starts — about 10 days after they first hear the males singing.”

Other protection methods include covering the crowns of valuable trees with a fine mesh or delaying the planting of trees a few weeks until the adult cicadas are gone.

Damage caused by periodical cicadas occurs during egg-laying. A female will cut several small pockets in the bark of a twig before depositing 400 to 600 eggs. This can cause small limbs or seedlings to wilt and may provide an opening for disease.

What is it that makes executive education superstars stand out?

By GARY W. CRAMER
Public Information

A thin line of perceived success separates the small group of individuals who can charge more than \$10,000 per day to conduct executive education programs for corporate buyers from the thousands of suppliers who earn less, say researchers from Penn State and the College of William and Mary.

In the report “Executive Education and Leadership Development: The State of the Practice,” the researchers estimate that only about 50 “global superstar” individual suppliers in the field can ask for and receive daily rates above \$10,000. Around 250 individuals in the highly competitive profession can get from \$5,000 to \$10,000 per day. The pay scale for the remaining 30,000 or so practitioners worldwide

falls as low as less than \$1,000 per day.

“Many of the people we consider ‘global superstars’ are riding the crest of a popular book, work all over the world for up to \$50,000 per session, and can rack up more than 100 billable days per year,” report co-author Albert A. Vitore, associate dean for executive education in The Smell College of Business Administration, said. Moving from one rank to another

can make for startling differences in daily rates and depends a great deal on image, the researchers say.

Also highlighted are trends among users of executive education/leadership development programs such as how firms budget for the programs and determine who is eligible to attend.

The full report is available through the Penn State Institute for the Study of Organizational Effectiveness.

ATHLETICS

A regular column provided by Intercomgate Athletics

New assistant coach

Mike Boyd, former Cleveland State University head coach, has been appointed assistant men's basketball coach.

Boyd, who served for 11 years as an assistant coach at Michigan before being named head coach at CSU for the 1990-91 season, is a 1970 graduate of Northern Michigan University and was instrumental in helping build Michigan's 1989 NCAA championship team.

He assisted head coach Bill Frieder with back-to-back Big Ten championship clubs in '85 and '86 and an NIT championship squad in 1984. Before going to Michigan, he served four years as an assistant at Kent State University in Ohio.

All-America Scholar

Brad Kittsley, a junior from Scarborough, N.Y., has been selected as a Golf Coaches of America Association All-America Scholar. He is a telecommunications major with a 3.41 grade point average.

More honors

The honors continue to roll in for Olga Kalinovskaya, the four-time NCAA women's fencing champion.

Kalinovskaya has been named the Suzy Favors Big Ten "Women's Athlete-of-the-Year" by a select panel of Midwest media representatives and Big Ten Conference office personnel. She is the first Penn State athlete to be honored as either male or female "Athlete-of-the-Year" since the Lions joined the conference in 1990.

Olympic contenders

Penn State's list of Olympic competitors grew by two recently when former Nittany Lion sabre fencers Peter Cox and Thomas Strzalkowski qualified for the U.S. team. The two fencers will join wrestler Sanshiro Abe and fencer Suzie Paxton at Atlanta for the Centennial Olympiad.

Student-athletes on top

Ninety-one Penn State student-athletes, representing spring and at-large sports, have been recognized as Big Ten Academic All-Conference selections, pushing the Lions' total for the year to 167. The total is the second-highest since Penn State teams began conference play in 1991-92.

■ A special time for special people



Cheering them on

Nancy Graham, pool coordinator at McCoy Natatorium on the University Park Campus, cheers for athletes competing at the aquatic venue during the Special Olympics.



Special Olympics a success

Roughly 2,000 athletes representing all 67 counties in Pennsylvania participated in the 27th Pennsylvania Special Olympics, held on the University Park Campus June 6-8.

The University has been host for the Games for the past eight years, and many of the 5,000 volunteers, coaches and spectators work for or are students at the University.

Medals ceremony

Lt. Brian Moun of the Navy ROTC program at the University Park Campus presents medals following the Special Olympics equestrian competition, held in the Ag Arena.

Photos: Andrea Hurley

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INTERCOM

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Olympic Thrill



Atlanta-bound

Debra Sheaffer, conference coordinator for the College of Agricultural Sciences who normally helps with the logistics in planning things like the Ice Cream Short Course, will now lend her talents to the Olympic Games in Atlanta. Sheaffer is an Olympic volunteer who will help oversee events at the men's and women's basketball arena.

Photo: Greg Grieco

Summer Games not just for athletes

By LISA M. ROSELLINI
Public Information

When Debra Sheaffer got the call of a lifetime, it was her answering machine that delivered the news.

No matter. This was the high-tech world of the '90s—a far cry from 1896 and Athens where the first international athletic event took place—the modern Olympic Games. And now, on

Penn State's John Lucas, official Olympic lecturer, gives his take on the Games that have survived a century on page 3.

the 100th anniversary of the competition, Sheaffer was going to Atlanta for the Summer Games that open July 19.

With an Aug. 31 wedding in the works, Sheaffer panicked a little over

the time frame of the Games. To top it off, she had just sold her house and was expected to be out by July 31. Not willing to pass up an opportunity she had waited for so long, she packed her suitcases while she packed boxes for the move. Sheaffer is Atlanta-bound.

But you won't see her stealthily swimming any victory laps or vaulting her way to a gold medal. Sheaffer is not one of the 300 female U.S. ath-

See "Olympics" on page 3

Modest raises, limited tuition hike in budget

By VICKI FONG
Public Information

The Board of Trustees approved a 1996-97 total operating budget of approximately \$1.68 billion for the University.

"This budget reflects no increase in the state educational and general appropriation, covers only the most critical needs and invests only in high priority programs through continued internal reallocations throughout the University," President Graham B. Spanier said. "It is a budget of balance and compromise, yet it is not one lacking in its ambition to make every possible effort to preserve the University's quality and progress."

In summary, the University foresees the following income changes:

- No increase in the state educational and general appropriation;
- An increase in the state appropriation for agricultural research and Cooperative Extension;
- No approved funding from the state for telecommunications/ information technology;
- A limited tuition increase;

— The implementation of the student activities fee;

— An increase in the computer fee;

— An increase in the tuition surcharge for certain majors; and

— Funds associated with last year's enrollment increases.

But also, the University foresees the following expense changes, according to Spanier:

— An increase of 6 percent in health care costs;

— A reduction in the employer's contribution rate for state retirement;

See "Tuition" on page 6

Inside



Gearing up for the campaign

The wheels are in motion to begin the 1996 United Way Campaign at University Park. See page 9 for information on who's spearheading the drive.



Crafts National 30

To find out about this Zoller Gallery exhibit titled "Sacred Heart" and other events happening on the University Park Campus, turn to page 13.

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University gets high marks in two rankings

One of top 100 colleges for Hispanics, in top 20 for minority doctorates

Penn State has been named one of the 100 best colleges for Hispanics by *Hispanic Outlook* in *Higher Education* magazine. Penn State also has made the list of top 20 producers of minority doctorate degree recipients, according to *Black Issues in Higher Education* magazine. Both articles are based on U.S. Department of Education figures.

The rankings in the April 26 issue of *Hispanic Outlook* reflect actual numbers of graduates and their majors. At Penn State, the total number of bachelor's degrees conferred on Hispanic students for the academic year 1992-93 (the most recent year reported in the article) was 112.

Total Hispanic enrollment has had uninterrupted 12-year growth at the University with 1,383 Hispanic students enrolled this past academic year.

"We are pleased with our success as reflected in the *Hispanic Outlook* listing, especially considering the geographic constraints we are under," James Stewart, vice provost for educational equity, said. "Most of the institutions on the list are either in large urban settings like New York City or in states with high Hispanic populations, like California. Some of our continued success stems from our strong alumni in Puerto Rico, who consistently promote the best features of Penn State."

Black Issues in Higher Education also ranked schools according to the number of minorities who graduated with bachelor's degrees in 1992-93. Among these, Penn State ranked 62nd nationwide.

In 1994-95, a total of 105 Hispanics graduated with baccalaureate degrees.

According to a special report on trends in minority degree production in the May 30 edition of *Black Issues in Higher Education*, Penn State ranked 18th out of the top 100 with a total of 42 minority doctoral degrees granted in the 1992-93 academic year — 10 African Americans, 14 Hispanics and 16 Asian Americans. The remaining two were not listed by race or ethnicity.

In 1994-95, a total of 63 minorities received doctoral degrees from Penn State — 12 African Americans, 14 Hispanics, 36 Asian Americans and one Native American.

Black Issues in Higher Education also ranked schools according to the number of minorities who

graduated with bachelor's degrees in 1992-93. Among these, Penn State ranked 62nd nationwide for — 608 minorities received bachelor's degrees at the University in 1992-93 and 637 in 1994-95.

Other Pennsylvania schools listed by *Black Issues* include Temple University, ranked at 36 with 804 minority baccalaureate degrees awarded; and the University of Pennsylvania, ranked at 63 with a total of 598 minority baccalaureate degrees awarded.

In the master's degree category, Temple and the University of Pennsylvania were listed among the top 99. Temple was ranked 33rd with 223 graduates, and the University of Pennsylvania was ranked 34th with 222 master's degree graduates.

In the doctoral degree category, Temple ranked 22nd with 36 minority graduates; the University of Pittsburgh ranked 46 with 24 minority doctoral degree graduates; University of Pennsylvania ranked 49 with 23 graduates and the Medical College of Pennsylvania ranked 62nd with 19 minority graduates.

The University of Pennsylvania also was listed as 94th among the top 100 master's-degree producers by *Hispanic Outlook*, with 29 Hispanic graduates.

International Programs to have new dean effective Sept. 1

Bevery Lindsay, professor of higher education and administration at the University of Georgia, has been named dean of International Programs and professor of education at Penn State effective Sept. 1. Lindsay will succeed **W. LaMar Kopp**, who will retire at the beginning of the fall semester.

As dean of International Programs, a newly titled position, Lindsay will be responsible for the University's international activities and programs across the entire University system. She will work collaboratively with deans of the academic colleges to ensure an international perspective in the Uni-

versity's three major functions of teaching, research and public service.

She brings to Penn State a distinguished record in international programs. Since 1970, she has directed or worked with academic programs in 26 different geographic areas. From 1992-95, she served as the dean of international education at Hampton University in Hampton, Va., where she administered, planned and developed University-wide international academic programs, policy development and strategic planning.

Beginning in 1991 and continuing to the present time, she worked directly with the United States Agency for International Development in South Africa and the Academy for Educational Development of the American Embassy. In 1995, her responsibilities expanded to Moscow, St. Petersburg and Tver, Russia. From 1986-92, Lindsay was the associate dean for academic affairs and professor of higher education and administration at the University of Georgia. In addition, she has been the recipient of a number of prestigious fellowships and grants.

BOOK SHELF

Joe L. Kincheloe, associate professor of education; **Arnon D. Gessner III**, associate professor of education; and **Shirley R. Steinberg**, lecturer at Adelphi University and educational consultant, are co-editors of *Measured Lies: The Bell Curve Examined*, published by St. Martin's Press.

Measured Lies is a rebuttal of Herrnstein and Murray's book, *The Bell Curve*, which suggests that certain groups of children are genetically unable to learn because of their race and thus are not good candidates for federal and state aid to education.

The book consists of original essays by a number of Penn State faculty, among them **William E. Cross Jr.**, **Henry Giroux**, **Robert M. Henderson**, **Catherine A. Lugg**, **Kyle L. Peck** and **Ladislav Semali**. *Measured Lies* has been described as "a searing indictment of racism and the way individuals can use it to subvert truth and amass power."

A new book by Penn State Harrisburg's **William Mahar** examines for the first time the cultural implications of America's first commercialized form of popular culture, the minstrel shows of the mid-1800s, and the historical context in which they developed.

Behind the *Burnt Cork Mask: Blackfaced Minstrelsy and the Formation of American Culture* analyzes the unique blend of music, theater and comedy presented in the variety shows that became popular between 1843-1860. The book breaks ground in addressing the issues of race, class and gender revealed by the popular music performed in these shows.

Mahar, head of the Division of Humanities at Penn State Harrisburg, based his study on an extensive analysis of songbooks, instrument instruction books, playbills, newspaper ads and reviews between 1843, the date of the first minstrel show, and 1860.



On the air

QVC Network broadcast live from the University Park Campus July 11. The segment showcased products made in Pennsylvania. QVC has an audience of 80 million viewers.

Photo: Greg Grieco

Olympics

continued from page 1

letes traveling to the Olympic Games. As conference coordinator in the College of Agricultural Sciences, she is one of the more than 100,000 volunteers and Olympic staff members—some Penn State—who make the Games happen.

With a background in athletics and a master's degree in sports administration from Penn State, Sheaffer was quickly plucked from a roster of Olympic volunteer wannabes. The Penn State has the heavy task of seeing that nothing goes wrong for temperamental types like Charles Barkley and his U.S. Dream Team during competition. At the Games, she will manage the arena where men's and women's basketball is played.

"My support administration career is going to be at its peak. Now what?" she joked. "It might seem glamorous, but it's going to be a lot of work. While most of the attention is focused on the athletes, and rightfully so, there are others who make these Games a reality. I just happen to be one of those people."

Sheaffer's not the only one.

When the flags are raised at opening ceremonies, **Mary Jo Haverbeck**, Penn State's associate sports information director, will also be there, herding some of the 10,000 broadcasters and 5,000 print media from across the globe who will be covering the Centennial Olympic Games. Haverbeck will help manage the Olympic stadium for opening and closing events and will also work with communicators for the track and field events.

"Professionally, with my position at Penn State, this is the ultimate opportunity. The contacts you make there are untouchable," she said. "From a more personal standpoint, I feel very strongly about the Olympics and amateur athletics. I like the idea of going to the highest level that amateur athletics has—and you can debate that. But it's the idea of putting your best foot forward."

Although Haverbeck has worked a number of prestigious events, including the 1980 Olympic Festival in Syracuse where she shared a bathroom with teen Mary Lou Retton, she thinks the thrill of the Olympics will surpass anything she has felt in the past.

"I was at the Pan American Games in Venezuela in 1983 and when the American flag was raised, it just made my heart skip a beat," she said. "It's a moment that you never forget and I'm looking forward to it again."

Olympic veteran **Richard Nelson**, professor and former director of the Biomechanics Laboratory on the University Park Campus, agreed the pageantry and cooperation is something to behold, but like the rest of the world—he'll be focusing on the Olympians' athletic performance.

Since Bob Beamon's incredible 29-foot, 21/2-inch long jump in 1968 in Mexico City, Nelson has had an ardent desire to document Olympic athletic performances. Beamon's jump, not topped until 1991, was unheard of in the track and field world. Had it been captured on high-speed film, it could have provided valuable insight into just how Beamon managed to accomplish such a feat. It wasn't and Nelson believes rare information was lost.

"The world was amazed at such a performance and we had no way of taking a second look to discover how this incredible athlete did it," Nelson said. "For the most part, scientists are virtually banned from the Olympic Games. It's not a big lab for a scientist to be poking around in."

But Nelson's science is different. Researchers in the field of biomechanics—the study of how the body moves during sporting activities—can study movement without interrupting an athlete's performance.

"We don't have to touch or talk to the athlete and we are studying what athletes are most interested in...how did I do?," Nelson said.

Nelson, now a member of the Medical Commission of the International Olympic Committee, helped convince Olympic officials that videotaping athletes' performances would not only benefit the athletes—who rarely get to analyze data from their extraordinary achievements under truly competitive conditions—but would also help scientists better understand the body and how it works. In 1984 at the Olympic Games in Los Angeles, Nelson began the first studies of Olympic athletes during competition.

Since then, Nelson has accumulated data from three Summer Games and three Winter Games. In the sport of swimming alone, Nelson and his research team have documented the strokes and turns of more than 1,000 men and women athletes in the water.

"We are looking at improving the performance of athletes and reducing injury rates," Nelson said. "This is a way to provide a more scientific approach to training rather than looking to chemical alteration."

"The Olympics is a remarkable human activity that is unparalleled," Nelson said referring to the 197 nations that will compete. "Economies can't bring people together. Rock stars can't do it. Only sport. Only the Olympics."

He loves to talk about the Games

John Lucas wears his love of the Olympic Games like a badge of honor.

Although, in 1952 during Olympic trials, he failed to qualify in the 10,000-meter run and left "heartbroken and crying," he has dedicated himself to the Games.

"Since that moment, I said I just have to be involved in the Olympics," the former Penn State track coach and professor of exercise and sport science, said. "I have attended every Summer Games since 1960."

Lucas, who retired from Penn State July 1, bears the title of the "Official Olympic Lecturer" and is the world's foremost authority on the Olympic Games. On July 15—just four days before the start of the 100th Olympics—Lucas was inducted into the Olympic Order for having served the Olympic movement for 40 years. It is an honor shared with only two other Americans.

As part of his tasks as official lecturer, Lucas talks with school children and other groups about the Olympics. He has lectured more than 201 times in 43 states. He also writes the last chapter of the official Olympic book produced after each Olympics.

The intent of that chapter is to capture the ambience of these particular games," he said. "My thoughts and feelings, the things I've seen and felt are all in there. It's not very scientific, but it's what I do fairly well."

In addition, Lucas has written three books and more than 200 articles about the Games. In fact, it was one of his books that landed him this volunteer position.

After reading his book *The Future of the Olympic Games*, Juan Antonio Samaranch, president of the International Olympic Committee,

met with Lucas to tell him he liked page 198 of the book.

"That's the page where I talked about how every country should have a spokesperson to tell people about the Olympics. It's really that important," Lucas said. "I said I'd be privileged to be that person."

Lucas deeply believes in the "double dream" of the modern Olympic Games, founded in 1896 by French nobleman Baron Pierre de Coubertin. In founding the Games, Coubertin hoped that representatives from every country on earth would compete. The Frenchman never saw that dream realized during his lifetime, which ended in 1937.

The second half of the dream, according to Lucas, is that the host city put on a nearly perfect Olympic Games. From that act, Lucas said a small, but measurable, contribution to world peace is made.

"These two things have never come together before in the 100-year history of the Olympics," he said.

But he is hopeful.

This year every nation in the world, now numbering 197, will participate—an unprecedented event.

"When the Games are done right, it is reflection of how extraordinarily good human beings can behave," he said. "The grandeur of human beings can be reflected, manifested and seen at the Olympic Games. I would love to see the double dream fulfilled."

"That's why I keep going," he said. "And besides, it's a helluva lot of fun!"

Lisa M. Rosellini

Who's going?

THE ATHLETES:

■ **Sanshiro Abe**, 1996 5meal College of Business Administration graduate, will wrestle for Japan.

■ **Mary Ellen Clark**, 1985 graduate from the College of Health and Human Development. Event: 10-meter platform diving.

■ **Peter Cox**, 1989 speech communications graduate from the College of the Liberal Arts. Event: fencing (sabre).

■ **Glenn Dubis**, 1981 graduate in the College of Agricultural Sciences. Event: rifle.

■ **C.J. Hunter**, 1991 political science graduate in the College of the Liberal Arts. Event: shot put.

■ **Thomas Strzalkowski**, 1995 graduate in general art and science in the College of the Liberal Arts. Event: fencing (sabre).

■ **Salima Davidson**, 1994 speech communications graduate in the College of the Liberal Arts, is a reserve member of the U.S. women's volleyball team.

■ **Kevin Scott**, assistant strength training coach; will wrestle in the Paralympics, which follow the Summer Games

COACHES AND STAFF MEMBERS:

■ **Wes Glon**, assistant coach of fencing; fencing coach

■ **Mary Jo Haverbeck**, associate sports information director; will serve as a press aide

■ **Emmanuel Kaidanov**, head fencing coach; will serve as an official

■ **Richard Nelson**, professor of biomechanics; is a member of the Medical Commission and will conduct research

■ **Vladimir Zalsiorsky**, director of the Biomechanics Laboratory and professor; is a member of the Medical Commission and will conduct research

■ **Debra Sheaffer**, conference coordinator, College of Agricultural Sciences; will manage an events arena

■ **Kristine Clark**, director, Sports Nutrition and instructor; team nutritionist for U.S. men's and women's field hockey and women's soccer

■ **Bruce Dunn**, head of productions for WPSX-TV; will help to produce television graphics

■ **John Lucas**, former professor of exercise and sport science, will once again serve as "Official Olympic Lecturer."

From the Trustees Docket

Support grows for plan to retool the University

By LISA M. ROSELLINI
Public Information

Senior Brandon Hamm sheepishly admits that Penn State wasn't his first college choice. But after going through the early orientation process at another university, Hamm dropped out that same day.

"I was not comfortable in that atmosphere. I didn't fit. I suddenly felt really bad about the choice I had made and I really was stuck," he said. "It was two weeks before I was supposed to graduate from high school, but it was probably the best thing that could have happened to me."

Hamm ended up at the Penn State Delaware County Campus near Philadelphia.

A native of Delaware County, Hamm, who lives in Drexel Hill, is surrounded by more than a dozen other local institutions.

"I wanted to stay close to home," he said. "There are a lot of students who want to go on to bigger universities, but aren't ready either emotionally or financially. It's for people like me, who want to stay close to home, finish their degree, feel comfortable and be a part of the university community that the Penn State system really works."

It's comments like these that, in part, prompted University administrators to look at a redesign of Penn State's 23-campus system. The plan, which was approved by the Board of Trustees at its July meeting, will retool the decades-old system to meet the changing needs of a changing student population. The plan calls for some current predominantly two-year campuses to become colleges and encourages the merging of some campuses. The plan also creates a new Commonwealth College, which could offer additional four-year degree programs, from 12 campuses spread across the state. (See related story on this page.)

The internal restructuring of Penn State has prompted questions and criticisms from other Pennsylvania institutions of higher education that fear the plan may take students away from them. But educational choices close to home are limited in areas like Altoona, DuBois and Fayette—all of which have a Penn State campus within their community.

"If Penn State weren't here, I don't know what I would have done," Denise Kubli, a sophomore at the Penn State McKeesport Campus, said. "This is such a practical place to have a Penn State location. The university is so well known, has so many different horizons and has been so responsive, that I don't know if I would have considered any other college choice."

Board of Trustees approves plan to redesign Penn State

By ALAN JANESCH
Public Information

A visionary plan that will change the shape of the Penn State system got the nod July 12 from the Board of Trustees.

The plan outlines a framework that will aid Penn State's 17 undergraduate campuses and other locations in helping Pennsylvanians across the state get the kinds of higher education programs they need—where they need them. Developed through a comprehensive yearlong process of planning and consulting that invited proposals from the campuses as well as members of the communities near those campuses, the plan will take effect on July 1, 1997.

Major changes in the plan include:

- merging the Harrisburg Campus and the Schuylkill Campus, which will become the two-campus Capital College;

- merging the Allentown and Berks campuses, which will become the two-campus Berks-Allentown College;

- changing the Altoona Campus into the Altoona College and the Abington-Ogontz Campus into the Abington College;

- having the 12 remaining campuses (Beaver, Delaware County, DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Shenango, Wilkes-Barre, Worthington Scranton and York) maintain their individual sites, but collectively become the Commonwealth College; and

- having the chief executive officer of the Great Valley Graduate Center report to the dean of The Graduate School, effective in the 1996-97 academic year.

The plan approved by the trustees—known as "Penn State's Campuses: A Plan for the Future"—will better accommodate Penn State students who are "location bound" because of families, jobs, or other ties to a particular area. New programs developed under the plan will be designed primarily to meet the needs of students and the workforce needs of neighboring communities.

The plan also will:

- slow down Penn State's currently rising enrollment growth rate;

- better enable Penn State to provide high-quality educational programs throughout the system;

- ensure modest, planned enrollment growth that remains within the University's existing and planned capacity;

- concentrate on serving Penn State students better through a more efficient use of Penn State's current resources;

- provide greater access to Penn State for Pennsylvania students; and

- allow for better enrollment balance across the system.

But students are not the only ones backing the plan for the redesign that will afford more freedom of choice for themselves and their communities. Legislators and local business leaders are also expressing support for Penn State's vision.

In April, Sen. Robert C. Jubelirer, a legislator from Blair County and president pro tempore of the Senate, wrote a letter to the State Department

of Education in support of the reorganization plan. The Republican legislator's district is home to the Penn State Altoona Campus, which will become a four-year institution.

In his letter, the senator outlined the benefits to the local community and said the "plan is vital to both the future of the institution and the economic health of this community."

"When students are forced



New look coming

Changes in the campus system, to take effect July 1, 1997, will mean more choices for students and easier access to a Penn State education for location-bound students.

Photo: Greg Grieco

Also, the plan:

- does not project large enrollment increases;
- does not propose a large number of new academic programs; and

- does not restrict lower-division students who want to move from any campus to an upper-division campus (including University Park).

The plan calls for each campus to develop a five-year strategic planning process and submit it to the University administration by January 1997. The campus plans are expected to address enrollment targets, new baccalaureate programs for 1997 and 1998, and new associate degree programs.

To monitor implementation of the plan and ensure that it proceeds in a timely manner, a University-wide steering committee will be appointed jointly by the University president and the chair of the University Faculty Senate.

The plan approved by the trustees is the outcome of a lengthy, broadly consultative planning process that began in October 1995, through which the campuses and other locations were asked to study their current missions and identify options that would best meet the needs of the communities they serve.

Throughout its history, University administrators told the trustees, Penn State has fulfilled its obligation to serve the entire state through its Commonwealth campus system. But now, they said, changing demographics and changing needs of the people of the Commonwealth have made it necessary for Penn State to develop its new plan for the future.

because of program limitations to transfer and complete their education elsewhere, it diminishes the likelihood of their returning to the community," Sen. Jubelirer said in his two-page letter. "This is not an area that is anywhere close to being saturated with higher education opportunities. The expansion of the campus and the successful fund-raising over

From the Trustees Docket

Support

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the years are indications of the tremendous support and pride of the community."

Jubeliner said he believes making the campus a four-year college will increase access to higher education for area residents and will increase the potential for students to look for work in the local area and make contributions locally.

"Traditionally, unfortunately, other institutions resist the efforts of public universities to become more competitive," he wrote. "There is a great deal of market research behind this proposal. What Penn State is doing is not only improving its position, but responding to the needs existing and expected in the future."

Russell L. Sheaffer, vice chairman of the Dauphin County Board of Commissioners, echoes Jubeliner's sentiments.

"I can sum up this plan in three words: It makes sense," he said. "This plan will hold what's in place and will also consolidate and rejuvenate existing programs, allowing Penn State to move forward. If it creates some growth, I don't think that takes away from the fact that this is a good plan."

For business leaders, the new plan will give them and their employees an opportunity for additional education and, again, will help retain and retain a much-needed resource—the workforce.

"This plan really offers a very significant opportunity for many around the state," **William Hayduk**, director of integrated resource planning at Duquesne Light Co. near Pittsburgh, said. "It serves people who cannot move or who cannot afford another institution. It answers the need for those who don't want to attend a larger institution."

Hayduk, a member of the advisory board at the Penn State McKeesport Campus, said he's excited that the local population may be able to obtain a "Big 10 degree" while staying close to home.

"I understand the concerns of other institutions, because for years they have been benefiting from our two-year system," he said. "But I think their concerns are misplaced. Penn State needs to take care of the students it is currently serving and provide that final two years of education. It is in the best interest of its students. Competition is going to make everyone better educators."

Modest tuition hike needed to maintain educational quality

By **VICKI FONG**
Public Information

A 4.75 percent increase in tuition for undergraduate and graduate students at all campuses for 1996-97 was okayed by the Board of Trustees. Fees were also set. The new levels reflect a state appropriation that included no increase for the University's educational and general funds budget, which mainly funds the teaching, research and outreach activities of Penn State. "A 4.75 percent tuition increase for undergraduate and graduate students is the minimal amount necessary to preserve the quality of the education provided by the University and to make continued progress in areas such as information technology," President **Graham B. Spanier**, said.

Twenty years ago, the state appropriation supported 54 percent of Penn State's general funds budget; today, it contributes just 35 percent. Tuition now makes up 57 percent of that particular budget. Of the University's total operating budget, the state appropriation contributes only 16.8 percent, with tuition contributing 27.2 percent.

■ In-state tuition for full-time students for the 1996-97 academic year will be:

— \$5,434 for University Park, Penn State Erie, The Behrend College, and Penn State Harrisburg undergraduates (an increase of \$246 over last year);

— \$5,262 for Commonwealth Campus undergraduates (an increase of \$238); and

— \$6,078 for all graduate students (a \$276 increase). Tuition for Pennsylvania medical students will also increase by \$276, for a total of \$16,000 for in-state medical students.

■ Out-of-state tuition for the academic year will be \$11,774 for University Park, Penn State Erie and Harrisburg undergraduates; \$8,178 for Commonwealth Campus undergraduates and \$12,516 for graduate students at all locations. Out-of-state medical students will pay \$23,210 for the academic year.

In addition, the 1996-97 budget includes the implementation of a \$25 per semester student activities fee and an increase in the computer fee. The activities fee is designed to improve out-of-class experiences at all campus locations and to

"A 4.75 percent tuition increase for undergraduate and graduate students is the minimal amount necessary to preserve the quality of the education provided by the University and to make continued progress in areas such as information technology."

— President **Graham B. Spanier**

improve the retention and recruitment of students. Each campus has established a student-run committee that will recommend allocations of these funds.

The computer fee increase of \$35 per semester will support student information technology needs. The current fee of \$35 per semester does not adequately support the growing use of technology by Penn State students.

"In my meetings with students, one of the most urgent requests is more computing capability," Spanier said. "A survey of our recent graduates indicated that computing was one of the most valued components of their academic experience. Employers tell us repeatedly that students must have computing skills in the workplace."

"We regret that the Commonwealth for the third year in a row declined to fund our request for a \$4.5-million special line item to support information technology at Penn State," he said. "We feel we must continue the forward drive in this area, which is of great importance to our students and to Penn State's ability to serve them well."

Income from the computer fee will provide improved access for students to Penn State's computing facilities, electronic mail, the World Wide Web and key information services and databases.

"There are microcomputer labs at all of Penn State's campuses," Spanier said. "There are more than 1,000 individual software packages and services available on these machines. Hundreds of new computers and several new labs will be added as well as more connections to the University network for off-campus students."

Preliminary construction plans OK'd

Sketch/preliminary plans for an addition to the Noll Laboratory and the proposed expansion of a major parking lot, both for University Park, were approved by the Board of Trustees during its July meeting at the Penn State Mont Alto Campus.

The three-story laboratory addition, designed by **Burt Hill Kosar Rittelmann Associates of Butler, Pa.**, will house a new clinical research facility — a joint operation of The Milton S. Hershey Medical Center and the College of Health and Human Development. Research at the \$2.3 million facility will be funded by the National Institutes of Health.

The 14,100-square-foot addition will include a client waiting room, out-patient rooms, a kitchen and dining area, examination rooms, procedure rooms and patient overnight stay rooms. A separate ground floor entrance facing North Atherton Street will distinguish its operations from the existing Noll Lab, which houses the Noll Physiological Research Center.

Research at the center focuses on human aging, particularly with regard to insulin, glucose, and protein metabolism, skeletal muscle function, environmental stress and the impact of exercise and other physiological strain on the development of chronic conditions associated with advancing age.

In other construction news, the trustees approved a proposal to create a 246-space addition for the Red A parking lot on the West Campus at University Park. The addition will allow for the replacement of spaces lost to recent and upcoming construction on the West Campus and will also relieve a current demand for additional parking at the west of the central campus area.

The planned asphalt lot has been sited to allow for future expansion of the West Campus and for the eventual extension of Pollock Road. It will include lighting and a sidewalk extending to a walkway along North Atherton Street. Total project cost is \$700,000.



Growth planned

The Red A parking lot on North Atherton Street on the University Park Campus will get an additional 246 spaces to replace those lost to construction and also to relieve current parking demand.

Photo: Greg Grieco

From the Trustees Docket

Tuition

continued from page 1

- Modest salary adjustments;
- Internal reallocations and budget cuts;
- Funding of critical program needs;
- Student activities funded through fees; and
- Student computer and telecommunications needs funded through a fee increase.

"Since 1991-92, Penn State's appropriation from the Commonwealth has risen only 8.6 percent, but when adjusted for inflation, the purchasing power of the appropriation has dropped by 6.6 percent over the same time," Dr. Spanier said. "Overall, the state appropriation will contribute only 16.8 percent of Penn State's total operating budget this coming year, a record low proportion."

Penn State's state appropriation of nearly \$281 million is an increase of 1.6 percent over the 1995-96 appropriation. The 1995-96 Tuition Challenge Grant funds have been folded into the University's base appropriation for 1996-97, but the extra dollars have been allocated by the state totally to agricultural research and Cooperative Extension with no increase for educational and general, medical education and Pennsylvania College of Technology line items.

Other income supporting the University's budget comes from tuition and fees as well as restricted funds from grants and contracts, University hospital operations, and auxiliary enterprises such as Student Housing and Food Services, The Nittany Lion Inn and Intercollegiate Athletics.

"When you plot tuition over a 20-year period, you can see that appropriation and tuition have reversed positions in funding their share of the University's general funds budget, which directly supports teaching, research and outreach," Spanier said. "The state appropriation contributes just 35 percent of the general funds budget, compared with 54 percent in 1976. Today, student tuition and fees will contribute 57 percent and other income will contribute approximately 8 percent to the general funds budget."

Increased operating costs include health care, fuel and utilities, maintenance and operation of new and renovated facilities, contributions to Social Security and the TIAA/CREF retirement program and modest salary adjustments.

"To maintain the competitiveness of Penn State's salaries and to recognize the strong performance that is characteristic of our faculty and staff, we gave as much priority as possible to salary increases," Spanier said. "For the 1996-97 academic year, the budget is based on a 1.5 percent increase for all employees whose performance has exceeded expectations and another 1.5 percent of the total salary base for additional merit, market and equity considerations."

The new budget also reflects internal allocations of 1 percent from all academic and administrative units except Computer Information Systems and the acquisitions budgets in the

By ANNEMARIE MOUNTZ
Public Information

The University will get the same base appropriation from the state for fiscal year 1996-97 that it got for 1995-96. That may not sound like bad news at first, but factor in inflation, and the \$214.7 million appropriation for educational programs really represents a decrease in actual spending power of more than \$4.3 million.

"This appropriation made it challenging to present a balanced University budget and will require us to scale back some of our critical academic initiatives and offer only modest salary increases," President Graham B. Spanier said in response to the state budget's passage on June 28.

The state's 1996-97 fiscal blueprint offers a \$4.3 million increase for agricultural research and cooperative extension, two areas which had received no increases for six years.

Approved by Gov. Ridge on July 2, Pennsylvania's \$16.4 billion general fund spending plan also forces the University to accelerate its efforts at cost reductions and internal reallocations. The signed budget falls more than \$17 million short of the appropriation the University requested.

Spanier, who presented the University budget to the Board of Trustees at its meeting July 11-12 at the Mont Alto Campus (see related stories on this page and page 5), said the flat base appropriation is not helpful to students.

University Libraries; instructional workload adjustments; and funding for the most critical program needs.

These priorities have resulted from the planning and budget process headed by the University Planning Council, a 15-member group of faculty, deans, students, administrators and staff.

Both the libraries and computer information were exceptions in the internal reallocations because they face severe challenges in keeping up with change while also trying to move ahead, according to Spanier. Of the funds reallocated, \$1 million will go to instructional workloads, particularly in the colleges of Health and Human Development, the Liberal Arts and Science, where workload has increased significantly.

"Additional funds will go to the academic colleges for program support, the Life Sciences Consortium, information technology, student aid and the most critical maintenance needs for the coming year," Spanier said.

State appropriation falls short

Summary of state appropriation amounts for the 1996-97 budget (dollars in thousands)

	1996-97 appropriation	1995-96 appropriation	Increase/ (decrease) amount	Percent increase/ decrease
Education and General	214,690	214,690	0	0
Medical programs	4,425	4,425	0	0
Children's Hospital	4,659	4,659	0	0
Agricultural research	20,386	18,300	+2,086	11.4
Agricultural extension	22,043	19,787	+2,256	11.4
Recruitment of disadvantaged	321	321	0	0
Central Pa. Psychiatric Institute	1,568	1,568	0	0
Penn College (dist. services)	1,392	1,592	0	0
Penn College	11,295	11,295	0	0
Totals	280,379	276,537	+4,342	1.6

Source: Office of Budget and Resource Analysis

"I am especially disappointed that we will not be able to see much progress this year in improving faculty-student ratios in our classrooms," he said. Spanier said he is committed to keeping tuition increases as low as possible, so spending plans will have to be modified.

"We understand the problems that faced the governor and the General Assembly during this budget process as the Commonwealth confronted its imposing fiscal challenges," Spanier said. "Yet, the steady erosion of support for higher education must be addressed to allow us to continue to provide an affordable, quality education for Pennsylvania's residents."

Other hardships students will face because of the state funding situation include a freeze on funding for the Pennsylvania Higher Education Assistance Agency. PHEAA officials estimate that as many as 5,000 fewer students will qualify for grants next year because the agency did not get its usual 10 percent increase.

With this budget, Pennsylvania remains to 46th out of the 50 states in per capita funding for higher education.

"The economy, future vitality and quality of life for this state are dependent on an educated work force," Spanier said. "Pennsylvania must find a way to increase funding of higher education."

The Commonwealth Educational System also will receive more permanent funding to handle instructional workload needs as the result of increased enrollment in the 1995-96 academic year.

"This budget will keep Penn State on an upward trajectory, but it exhausts much of our flexibility," Spanier told the board. "Unexpected higher enrollments and temporary rollbacks on required contributions to the state employee's retirement system helped us avoid deeper and more serious cutbacks."

"But we must find a way to plan for a future where our strength is on firmer ground for the long-term. At the urging of several trustees, I have appointed a task force to take a very close look at a wide range of options including tuition rates that differ by level and program. We will begin looking at that scenario seriously and discussing details over the year."

From the Trustees Docket

Classroom Building is renamed

The Classroom Building, which sits at the corner of Pollock and Shortidge roads on the University Park Campus, will be named for President Emeritus Joab L. Thomas, Penn State's 15th leader, who retired last year. Dr. Thomas is being honored for his contributions to improving undergraduate education, including state-of-the-art classroom facilities and technology for computer-assisted instruction.

During Thomas's tenure, 1990 to 1995, Penn State experienced a boom in construction of new buildings and additions to existing structures, most of which included facilities for undergraduate education. Over the five-year period, the University undertook nearly \$314 million in construction projects with an additional \$91.3 million in projects under design.

Among those buildings completed were Agricultural Science and Industries, the Nittany Lion Inn addition, Mateur, Applied Research Laboratory, Music II, the first phase of the Research Park and The Bryce Jordan Center. Also completed were library buildings at Penn State Erie and the Penn State Schuylkill Campus, as well as study, learning and multi-purpose buildings at the Beaver, Mont Alto, Wilkes-Barre and York campuses.

The Thomas Building was built with University funds for \$10.9 million and was completed in 1992. In addition to classrooms, it houses the dean's office for the Eberly College of Science and the Department of Statistics. It can accommo-



Honored

The Classroom Building, built during the tenure of former President Joab Thomas, will now be called the Thomas Building.

date 1,600 students in two lecture halls and 28 classrooms, eight of which feature multi-media computers and projection systems and are a key component of the Technology Classroom Initiative, also undertaken in the Thomas years.

Hershey report shows growth in key areas

Year-end reports from The Hershey Medical Center that show growth in patient services and sponsored research programs, as well as progress in cost-reduction efforts, were presented to the Board of Trustees.

■ Growth in several key clinical areas was noted by Dr. C. M. Collier-Evarts, chief executive officer, senior vice president for health affairs and dean of the College of Medicine. For example, 20,779 patients were admitted to University Hospitals, a 2.5 percent increase over the previous fiscal year. The number of patients treated in the emergency department increased by 9.8 percent over the previous year bringing the number treated to 25,656. Patients seen by physicians in the clinics increased by 13.4 percent to a total of 356,349 patients for the year.

Surgical services at the medical center also are increasing. Ambulatory surgery patients increased to 5,558 or 17.2 percent in the past year, while inpatient surgery patients are up to 8,367, or 2.2 percent more than the previous year.

The overall length of stay — a measure of efficiency in delivery of inpatient services — dropped to 6.6 days, a decrease of approximately 20 percent.

Costs per admission have been reduced by approximately 1.5 percent since fiscal year 1991-1992, when adjusted for inflation.

Cost savings have been passed on to consumers through negotiating lower reimbursement contracts with managed care companies on a competitive basis. Additionally, there have been no general price increases since April 1993, resulting in approximately \$5 million in consumer savings.

■ Dr. Bruce Hamory, chief operating officer and executive director of University Hospitals, reported on the Redesign for Excellence program, known as RX2. Based on a successful cost-reduction effort at the medical center in 1993, which reduced expenses by \$37 million, a rate increase for the 1993-94 fiscal year was unnecessary. That trend has now continued into 1996-97 — four consecutive years without a rate increase.

However, because reimbursement funds for patient

care continue to shrink, Hamory said the medical center still needs to aggressively maintain efforts to contain costs. With that need in mind, the goal of RX2 is to reduce operating expenses by a total of 12 percent, or \$50 million, over the next three years.

This effort will be institution-wide, including an organizational focus on the Clinical Enterprise, the Research and Education Enterprise and the Institutional Support Enterprise.

■ The University's Life Sciences Consortium, which has a steering committee of faculty from the colleges of Agricultural Sciences, Earth & Mineral Sciences, Engineering, Health and Human Development, the Liberal Arts, Medicine and Science, is exploring new approaches to undergraduate and graduate education, and was the subject of a report by Judith Bond, assistant dean for the M.D./Ph.D. program, professor and chair of biochemistry and molecular biology.

She said its goals are to recruit top-rate students and faculty, and to encourage interdisciplinary research and programs that are recognized nationally and internationally.

■ On the research side, the trustees learned that sponsored funding awards to the College of Medicine for the 1995-96 fiscal year totaled \$44.3 million, up 21.2 percent over last year. This total includes a \$5.6 million increase in direct costs and a \$2.2 million increase in indirect costs. These award totals reflect a 28.1 percent increase in sponsored funding in the clinical departments and a 13 percent increase in the basic science departments.

Although the growth in the College of Medicine's sponsored research program looks good, continued success is threatened by the changing economics of health care, according to Leonard S. Jefferson, associate dean for research and graduate studies, professor and chairman of cellular and molecular physiology. Plans under way to cope with these threats to the college's research mission include:

- Improved efficiency in the cost of research through establishment of core infrastructure facilities;
- Enhanced research collaboration between faculty at University Park and at the College of Medicine through the Life Sciences initiative; and
- Increased commitment to improved coordination of clinical research.

"Library of the Future" design meets approval

By STEVE HEVNER
Penn State Harrisburg

The initial design for a state-of-the-art, \$17.3 million "Library of the Future" to be constructed at Penn State Harrisburg has been approved by the Board of Trustees.

The approved design represents a sketch for the basic floor plans and a conceptual view of the building itself. The next step will involve the preliminary design with more detail in the structure of the building and the first steps for design of the mechanical and electrical systems. A final design phase will follow.

The initial design for the 115,000-square-foot library on the Middletown campus was submitted through a joint architectural effort between Hayes Large Architects of Altoona and Shapley-Mulford Richardson and Abbott of Boston.

The library will replace the current facilities of the college's Heindel Library in the Olmsted Building on campus. In addition to the \$17.3 million provided by the Commonwealth, a \$2 million Penn State Harrisburg campaign is being conducted to provide funding for technology and equipment enhancements to complement the library.

Among those who have already made major pledges for the \$2 million campaign are: HARSCO Corp., \$100,000; Hershey Foods, \$75,000; Pennsylvania Blue Shield, \$75,000; Armstrong World Industries, \$60,000; Keystone Financial, \$50,000; Anne McCormick Trust/Fiduciary Deposit, \$50,000; and the Patriot-News/Newhouse Foundation, \$50,000.

The Library of the Future, with an anticipated geographical service area of nearly 1.5 million potential users as well as area businesses and government, will employ state-of-the-art technologies to provide global information access for both on-site and remote users. In addition, the new facility will provide adequate storage for the library's research collections in business, engineering, Pennsylvania folklore, educational curriculum development, economic development, women's history and other areas. The Pennsylvania State Data Center will also have a service component in the new facility.

If all dates in the series of approvals are met, occupancy of the Library of the Future could come as early as fall 1998.

In other action on Penn State Harrisburg buildings, the Board of Trustees also approved the renaming of two buildings. The Admissions Building and the Laboratory and Security Building have been renamed for two local waterways and will be called the Susquehanna Building and the Swatara Building, respectively.

Private Giving

Engineering receives \$2.5 million endowment

Robert J. Reese, a semi-retired civil engineer and State College businessman, and his wife, **Eleanor S. Reese**, have donated the **Nittany Mountain Industrial Park** to the College of Engineering through a charitable remainder trust. The \$2.5 million gift will create the **Robert J. and Eleanor S. Reese Engineering Research Endowment** to help faculty and students address areas critical to national and state needs and emerging technologies.

"I know how hard it is to get started in business," Reese said. "There are so many problems when you're trying to take a new idea and make a business out of it. That's why I built the industrial park — to give young entrepreneurs a place to

get started. And that's why we are providing this endowment — to help engineers with new ideas develop them."

After graduating from Penn State in 1933 with a B.S. in civil engineering, Reese traveled and held a number of different engineering positions for more than 15 years before developing his own businesses. These positions included work for the state highway department, the Soil Conservation Service, the Army Corps of Engineers in Washington, D.C., Rockview Penitentiary and at various surveying jobs.

These experiences provided the foundation for his success as an engineering consultant through R.J.

Reese and Associates and Universal Technical Inc.

In 1976, Reese sold Universal Technical to begin a second career developing Nittany Mountain Industrial Park.

Eleanor Reese, a State College native and 1936 Penn State alumna with a B.A. in arts and letters, was working in Lancaster when she and Reese met. She was the office manager for Reese's companies, doing the bookkeeping and producing the technical reports needed for testing projects. They have been married for more than 50 years and have five children and five grandchildren. Two of their sons are Penn State graduates. One of their daughters works for the University.

The Reese Research Endowment will provide the financial resources to ensure that faculty use modern equipment and laboratories for creative, practical-oriented teaching, as well as to support significant research and development programs.

The Reeses will receive a number of benefits from their gift to the University through the charitable remainder trust. They are relieved of the management responsibilities for this land and its tenants, yet they maintain an income from the property throughout their lifetimes. They are able to receive significant current tax deductions from their donation as well as future tax benefits for their heirs through lower estate taxes.

ARL researchers will benefit from equipment gift

Through a donation from **Armstrong World Industries**, the Applied Research Laboratory has acquired equipment to help researchers develop more efficient industrial uses of thermal-coating processes.

The gift of electron-beam physical vapor deposition equipment is valued at \$119,000. It will enable the University to set up a pilot production facility that will demonstrate industrial applications of thermal coating. The technology currently is used primarily to apply a heat- and corrosion-resistant surface to jet engine blades.

Researchers will focus on reducing the cost of the process so it can be used to put protective coatings on cutting tools, floor tiles, toy molds and the insides of car exhaust systems. When the project is complete, the facility will offer a full-scale production model that will demonstrate that the applications can be conducted economically in a production scenario.

The facility will be located at the Materials Research Institute Building at the Research Park.

Armstrong World Industries, with headquarters in Lancaster, Pa., is widely known for its floor covering products, and also manufactures specialty products for the building, automotive and textile industries. It produces and manufactures its products worldwide, with 48 manufacturing facilities in the U.S. and 21 facilities in 11 other countries.

Distinguished Alumna Helen Dickerson

Distinguished Alumna Helen Dickerson, Wise, retired deputy chief of staff for the U.S. House of Representatives, has donated her working papers to Penn State's University Archives. The collection includes materials from her work during the Casey administration, her years as president of both the National and Pennsylvania State Education Associations, her term in the Pennsylvania House of Representatives and her work with the Delaware State Education Association. It also includes information from her work with Kappa Delta sorority.

Wise retired in 1995 after serving eight years on Casey's staff as secretary for legislative affairs, secretary to the cabinet and deputy chief of staff for programs.

Wise began her career as a teacher in the Unionville-Chadds Ford Joint Consolidated School in Chester County, and later taught in State College. She was president of the Pennsylvania State Education Association in 1969 and president of the National Education Association in 1974.

Wise served in the Pennsylvania House of Representatives from 1976 to 1978 and was executive director of the Delaware State Education Association from 1979 to 1985. She continued in educational leadership, serving as a consultant and adviser to several local and national organizations. She served as interim executive director of the Maryland State Teachers Association, as a consultant to the NEA in New Mexico and as a consultant to Barash Advertising in State College.

She currently serves on the board of the Pennsylvania Higher Education Assistance Agency.

Wise was named a Penn State Alumni Fellow of the College of Education in 1987, received the Lion's Paw Award in 1990 and was named a Penn State distinguished alumna in 1991. She received her bachelor of arts, master of education and doctor of education degrees from Penn State.

The papers and materials that reflect the experiences of Penn State and its alumni are a valuable resource that the University Libraries has committed to preserve. The Libraries' University Archives/Penn State Room has launched an effort to gather the papers of the University's distinguished alumni.

Retired farmer gives \$95,000 to agricultural sciences

The College of Agricultural Sciences has received a \$95,000 gift from **Horace T. Woodward** of Mendenhall. His gift will benefit the **Pasto Museum Endowment** and the **Horace T. Woodward Faculty Development Endowment**, which he established last July with a gift of \$50,000.

Woodward, a retired farmer whose expertise lies in dairy, poultry and fruit farming, is a 1928 graduate of the University with a degree in agriculture.

He designated \$50,000 of his most recent gift to the **Pasto Museum Endowment**, which the college's alumni created in 1991 to provide funds to cover the operating expenses of the museum. The museum at the Russell E. Larson Agricultural Research Center, showcases a collection of nearly 300 rare and unusual farm and household items dating back to the 1840s.

The balance of Woodward's donation will support the faculty development endowment — the first of its kind in the college. It provides supplementary funds to support the professional development of non-tenured faculty members who are establishing and building their research programs.

Woodward has supported many programs in the College of Agricultural Sciences. He previously established the **Horace T. Woodward Scholarship** in 1990, which is awarded to academically promising students enrolled in the college.

Gift-matching program brings more than \$81,000 to University

Penn State has received more than \$81,000 through a gift-matching program from the **Exxon Education Foundation**. In 1995, 75 active and retired employees of Exxon made gifts to the University, which the foundation matched at a 3-to-1 ratio. The foundation's educational matching gift program is one of the few in the country to match gifts at this rate.

The gifts, including the Exxon match, will support programs of the donor's choice. The foundation established the educational matching gift program in 1962 to encourage individual giving to colleges and universities. In 1995, the program provided \$12.6 million in gifts to 927 institutions of higher education. Since the program's inception, Exxon has given more than \$160 million to more than 1,000 institutions.

The **Exxon Education Foundation**, a nonprofit organization aiding education in the United States, was established by Exxon Corp. in 1955. Since 1966, Exxon has given the University nearly \$4 million.

University Park United Way officers, team leaders announced

Spearheading the 1996 United Way Campaign at University Park will be Timothy M. Curley, athletic director, as chair, and J.D. Hammond, dean of The Smell College of Business Administration, as vice chair. Hammond will be the chair of the 1997 campaign.

Curley was vice chair of the 1995 campaign. Both Curley and Hammond will work closely with the Centre County United Way Campaign leaders throughout the campaign.



Timothy M. Curley



J.D. Hammond

Curley has been a member of the Penn State athletic staff since he joined the department as a graduate assistant football coach. He was an associate athletic director working in student services, administration of grant-in-aids, football and men's basketball scheduling, and worked as a liaison to the football and men's basketball programs and principal adviser to the former athletic director.

He was actively involved in the development of the Academic Support Group Center for student-athletes and the Penn State Sports Medicine Center.

He earned both a bachelor's and a master's degree in counselor education from Penn State, and served as a graduate assistant coach while pursuing his master's.

Hammond holds the William Elliot Chair of insurance in The Smell College. He served as chair of the Department of Insurance and Real Estate from 1986 to 1989. His responsibilities as dean began in 1988. He also served on the faculty of the University of Pennsylvania and The Ohio State University.

In addition, he has served as chair of the Council of Academic Deans, as a member of both the University Future

and members of the 1996 Steering Committee for the campus United Way Campaign are: Roger Martell, agricultural sciences; Evelyn Ellis, arts and architecture; Dale Roth, athletics; Trudy Smith, business administration; Shelly Miller, Commonwealth Educational System; Christine Templeton, communications; John Dixon, Computer and Information Systems; Jean McGrath and Jim Campbell, Continuing and Distance Education; Lori Baney, development and alumni relations; Colleen Swetland, earth and mineral sciences; Susan Osman, education; George McMurtry, engineering; Jane Kone, enrollment management and administration; Phillip Melnick, finance and business; June Stine, health and human development; Richard Leah, liberal arts; Carol Hermann, president's office; Ginny Imboden, Research and Graduate School; Don Genson, science; Carol German, student affairs; Janet Bowman and Donna Meyer, undergraduate education; Lynne Stuart, University Libraries; Leon Kneebone, retirees; and Jeff Nesbitt, students.

Plans are under way for the annual fall solicitation, which benefits United Way agencies in Centre County.

Committee and the University Council on Continuous Quality Improvement, and currently serves as chair of the Assembly's Workforce Diversity Grant Task Force and as principal investigator for the \$1 million IBM total quality management grant awarded to Penn State in 1992.

Hammond received an A.B. from Northwest Missouri State University in 1955 and a Ph.D. in economics from the University of Pennsylvania in 1961.

Serving as team leaders and members of the 1996 Steering Committee for the campus United Way Campaign are: Roger Martell, agricultural sciences; Evelyn Ellis, arts and architecture; Dale Roth, athletics; Trudy Smith, business administration; Shelly Miller, Commonwealth Educational System; Christine Templeton, communications; John Dixon, Computer and Information Systems; Jean McGrath and Jim Campbell, Continuing and Distance Education; Lori Baney, development and alumni relations; Colleen Swetland, earth and mineral sciences; Susan Osman, education; George McMurtry, engineering; Jane Kone, enrollment management and administration; Phillip Melnick, finance and business; June Stine, health and human development; Richard Leah, liberal arts; Carol Hermann, president's office; Ginny Imboden, Research and Graduate School; Don Genson, science; Carol German, student affairs; Janet Bowman and Donna Meyer, undergraduate education; Lynne Stuart, University Libraries; Leon Kneebone, retirees; and Jeff Nesbitt, students.

Plans are under way for the annual fall solicitation, which benefits United Way agencies in Centre County.



By DOUG STANFIELD
technology editor

More reruns

To finish off that list of summer reruns that was started in the June 20 issue of *Intercom*, here are more interesting and useful Web sites to peruse:

■ Sites at Penn State, or sites intended for use by University faculty, staff and students:

— IBIS online:

URL: <http://www.oas.psu.edu/oasdocs/ibis/ibisfms.htm>

— Fund-raising and development

URL: <http://www.development.psu.edu/>

— Penn State colleges and academic units' Web pages

URL: <http://www.ur.psu.edu/PROFILE/Statewide.html>

— Penn State: A Profile. An overview of the University

URL: <http://www.ur.psu.edu/PROFILE/profileindex.html>

— The University Style Manual for writers and editors

URL: <http://www.ur.psu.edu/PUBS/PUBS.htm>

— Virtual tour of President Spanier's office

URL: <http://stingray.cac.psu.edu/President/>

— On-campus computer lab usage reports

URL: <http://dsq.cac.psu.edu/pais/>
URL: <http://cac.psu.edu/~fid1/>

■ General news and information

— Pointcast Network (news broadcast over Internet, replaces screensaver; PCs only for now, Mac version coming)
URL: <http://www.pointcast.com>

— General gardening resource (one among hundreds of sites)
URL: <http://www.helsinki.fi/kimusi/botany.html>

— Remote-controlled gardening test plot in California
URL: <http://www.usc.edu/dept/garden/>

— Create your own newspaper with CRAYON
URL: <http://cyberenet.net/~murnaj/crayon.htm>



Going buggy

Mark Hornsdel of State College Middle School and Helen Quinn of Park Forest Middle School look for bugs on a dock at Laurel Haven. The two teachers were participating in "Bug Camp for Teachers," sponsored by the Department of Entomology. On Aug. 10, the department will sponsor "Feasting with the Fritillaries." On Sept. 21 you can attend the department's "Great Insect Fair." For more information, call the Department of Entomology at (814) 865-1895.

Photo: Andrea Hurley

Promotions

→ Effective July 1, 1996

Academic Rank

Following are University-wide faculty promotions, effective July 1

To Professor

Cheryl T. Achterberg, nutrition
Richard B. Alley, geosciences
Daniel C. Armstrong, music
Daniel J. Brass, organizational behavior
James G. Brasseur, mechanical engineering
James K. Breakall, electrical engineering
Charles R. Cantalupo, English, Schuylkill Campus
John F. Cardella, radiology, The Milton S. Hershey Medical Center
Andrew M. Carleton, geography
Ken L. Catchen, nuclear engineering
Tom M. Cavalier, industrial engineering
M. Jeya Chandra, industrial engineering
James R. Connor, neuroscience and anatomy, The Milton S. Hershey Medical Center
Paul J. Eslinger, medicine, The Milton S. Hershey Medical Center
James S. Fairweather, education
Robert F. Fehlner, chemistry, Worthington Scranton Campus
Ken S. Feldman, chemistry
Brian J. Gilmore, mechanical engineering
Javier Gomez-Calderon, mathematics, New Kensington Campus
James W. Griffith Jr., comparative medicine, The Milton S. Hershey Medical Center
Terry P. Harrison, management science
Mark D. Hayward, sociology and gerontology
Deryck W. Holdsworth, geography
Alan L. Horvitz, mathematics, Delaware County Campus
Dale R. Jacobs, psychology
Rick L. Jaquette, philosophy
Byron C. Jones, biobehavioral health and pharmacology
Teh-hui Kao, biochemistry and molecular biology
Roger T. Koide, horticultural ecology
William J. Kraemer, applied physiology and exercise and sport science
John H. Kramer, sociology and justice
Vijay Krishna, economics
Christiane P. J. Makward, French and women's studies
Mary E. Maloney, medicine, The Milton S. Hershey Medical Center
Gary W. Moorman, plant pathology
Ramanathan Nagarajan, chemical engineering
Antoniano Nanni, architectural engineering
Michael M. Naydan, Slavic languages
Eliza Pennypacker, landscape architecture
Jonathan Phillips, chemical engineering

Evelyn B. Pluhar, philosophy, Fayette Campus
Madhu S. Prakash, education
Raymond W. Regan Sr., civil engineering
Edward P. Schwenker, orthopedics, The Milton S. Hershey Medical Center
Margaret L. Signorella, psychology and women's studies, McKeesport Campus
Allan I. Stoeckl, French and comparative literature
Gerhard F. Strasser, German and comparative literature
Bruce C. Stuart, health policy and administration
Soundar R. Tirupatikumara, industrial engineering
William S. Toothacker III, physics, Mont Alto Campus
Gabriella A. Varga, animal science
Thomas C. Vary, cellular and molecular physiology, The Milton S. Hershey Medical Center
Robert C. Voigt, industrial engineering
Kon-Well Wang, mechanical engineering
John W. Wills, microbiology and immunology, The Milton S. Hershey Medical Center

To Associate Professor

Catherine S. Abendroth, pathology, The Milton S. Hershey Medical Center
Gregory C. Allen, anesthesia, The Milton S. Hershey Medical Center
Kevin D. Alloway, neuroscience and anatomy, The Milton S. Hershey Medical Center
Omid Ansary, engineering, Penn State Harrisburg
Paul E. Bolin, art education
Thomas H. Bruening, agricultural and education education
Thang N. Bui, computer science, Penn State Harrisburg
Liming Chang, mechanical engineering
Margaret R. Christian, English, Allentown Campus
Robin B. Ciardullo, astronomy and astrophysics
Lance R. Collins, chemical engineering
Diana L. Cox-Foster, entomology
William S. Curran, weed science
David W. Day, psychology
Edward C. DeMeter, industrial engineering
Ivko M. Dimitric, mathematics, Fayette Campus
Bernard D. Eardly, biology, Berks Campus
Roger A. Egolf, chemistry, Allentown Campus
Renata S. Engel, engineering
Gregory K. Farber, biochemistry and molecular biology
Kristen A. Fichtorn, chemical engineering
Kelleann Foster, landscape architecture
Andrzej J. Gapinski, engineering, Fayette Campus
Wieslaw Grebski, engineering, Hazleton Campus
Christina Haas, English
Charles R. Hackenberry, English, Altoona Campus
Jean E. Harris, professional accounting, Penn State Harrisburg
March L. Harris, history, Altoona Campus
Klaus F. Helm, medicine, The Milton S. Hershey Medical Center
Diane M. Henderson, mathematics
Austin L. Hughes, biology
Timothy P. Johnson, landscape architecture
James T. Kalsbeek, architecture
Thomas F. Keefe, computer science and engineering
Walter A. Koltun, surgery, The Milton S. Hershey Medical Center
Donna J. Kuga, exercise and sport science, Beaver Campus
Ching-Chung Kuo, operations management, Penn State Harrisburg
Derek Laing, economics
Suren Lavani, humanities and communications, Penn State Harrisburg
William C. Lasher, mechanical engineering, Penn State Erie, The Behrend College
Holly S. Lewis, management science
Kathryn W. Lilly, mechanical engineering
Chang Liu, comparative literature and Chinese
Marilyn D. Maltese, speech communication, Worthington Scranton Campus
Merrilee J. Mayo, materials science and engineering
Samuel A. McClintock, engineering, Penn State Harrisburg
Paul M. McCorkle, art
William D. Milheim, education, Great Valley Campus
Benedicte M. C. Monicet, French and women's studies
William P. Moore Jr., English, Altoona Campus
Aldo W. Morales, engineering, DuBois Campus
Hossein Movahedi-Lankaran, mathematics, Altoona Campus
Kevin Murnane, psychology
Susan A. Murphy, statistics
Paul A. Orlov, English, Delaware County Campus
Rosalvador Oropesa, sociology
Marin T. Pietrucha, civil engineering
Jeffrey K. Pinto, management, Penn State, The Behrend College
Cheryl J. Plumb, English, York Campus
Claudia K. Probst, nutrition
Patrick G. Quinn, cellular and molecular physiology, The Milton S. Hershey Medical Center
Carol A. Reardon, history
John H. Rogers III, economics
Christopher S. Ruf, electrical engineering
Prem D. Sattsangi, chemistry, Fayette Campus

Lee S. Segal, orthopedics, The Milton S. Hershey Medical Center
Scott I. Segalewitz, engineering, New Kensington Campus
Dennis G. Shea, health policy and administration and economics
Kristin B. Sommes, art
Victor W. Sparrow, acoustics
Eric W. Stein, management and information systems, Great Valley Campus
Shelley M. Stoffels, civil engineering
Girija Subramanian, chemistry, Hazleton Campus
Girish H. Subramanian, information systems, Penn State Harrisburg
Gita Talmage, mechanical engineering
John Tierney, chemistry, Delaware County Campus
Anthony J. Valone, English, DuBois Campus
Alexandros N. Vgontzas, psychiatry, The Milton S. Hershey Medical Center
Ping Wang, mathematics, Schuylkill Campus
Matthew T. Wilson, humanities and writing, Penn State Harrisburg
Jerry L. Workman, biochemistry and molecular biology
Abdullah Yavas, business administration
John J. Zurlo, medicine, The Milton S. Hershey Medical Center

To Associate Librarian

Christine C. Avery, general reference
Deborah L. Cheney, documents/maps
Timothy L. Wherry, information access services, Altoona Campus

To Senior Research Associate

Thomas G. Hughes, Applied Research Laboratory
Jogender Singh, Applied Research Laboratory
Douglas H. Werner, Applied Research Laboratory
William C. Zierke, Applied Research Laboratory

Cooperative Extension

Following are promotions of staff members in Penn State Cooperative Extension in the College of Agricultural Sciences effective July 1.

To Senior Extension Agent

Michael C. Masiuk

To Extension Agent

Patricia Gordon-Anderson
Karen A. Bracey
Deborah A. Dietrich
Liesel Dreisbach-Williams
Susan M. Fritz
Timothy J. Fox
M. Annette Goodling
Richard S. Kauffman
Robert C. Pollock
Sanford S. Smith

To Associate Extension Agent

Debra L. Naumann
Sandra Parker Hall
Toni M. Stuetz
Carole L. Toubakaris

Awards

Professor earns microbiology society award

Jean E. Brencley, professor of microbiology and biotechnology, has been named the recipient of the Alice C. Evans Award of the American Society for Microbiology. The award recognizes Brencley's long-standing commitment to the professional development of women in microbiology.

The award is named in honor of Alice C. Evans, who obtained fellowships, held positions and served on committees traditionally reserved for men and, by her example, opened many doors for women in the field of microbiology.

Brencley has had a distinguished career in microbiology as a researcher and administrator. An acknowledged leader in the field of bacterial metabolism, her current research focuses on enzymes that thrive at unusually low temperatures and the organisms that produce them.

Before coming to Penn State in 1984 as head of



Jean E. Brencley

fitting. She also established a fermentation pilot plant and started short courses and workshops in

the former Department of Molecular and Cell Biology, she served as research director of microbial biochemistry at Genex Corp. She simultaneously launched Penn State's Biotechnology Institute and became its founding director, raising funding for the institute and overseeing its design, construction and outfitting. She also established a fermentation pilot plant and started short courses and workshops in

which scientists from across the nation could experience modern scale-up procedures.

In 1986 she was elected president of the American Society for Microbiology, the largest group of professionals in a single biological discipline. She is a Fellow of the American Academy of Microbiology and the American Association for the Advancement of Science and an editor of *Microbiological Reviews*.

She has been a visiting scholar at the National Institutes of Health Laboratory of Microbial Ecology and has received the Waksman Award for outstanding contributions to microbiology from The Theobald Smith Society, an honorary membership in the Sigma Delta Epsilon national sorority for graduate women in science, and an honorary doctoral degree from Lycoming College.

Assistant professor of chemistry receives Young Investigator Award

Xumu Zhang, assistant professor of chemistry, is one of 34 researchers nationwide to be selected from more than 400 applicants as a recipient of the Office of Naval Research Young Investigator Award.

The Young Investigator Program, which supports research by exceptional scientists who have held a doctoral degree for fewer than five years, provides recipients with up to \$100,000 a year for three years to support research in fields critical to the Navy and Marine Corps. The award will help support Zhang's development of novel biomimetic strategies for the synthesis of ferroelectric liquid crystals, which are revolutionary new materials that could have applications in devices such as ultrafast electro-optical modulators for optical computing



Xumu Zhang

and large-area, flat-panel displays.

He received a bachelor's degree in chemistry in 1982 at Wuhan University in China, a master's degree in physical and inorganic chemistry in 1985 at the Chinese Science Academy and a doctoral degree in organic and inorganic chemistry in 1992 at Stanford University. He then was a postdoctoral Fellow and research associate at Stanford University until he joined the Penn State faculty in 1994. He received the Camille and Henry Dreyfus Foundation New Faculty Award in 1994 and the DuPont Young Faculty Award this year.

Senior lecturer recognized as Misericordia distinguished alumna

Rosemary L. Gido, senior lecturer in administration of justice, received the Mother Mary Catharine McGann Distinguished Alumni Award from College Misericordia, Dallas, Pa. The McGann Award, named in honor of the founder of the college, recognizes alumni who demonstrate excellence, leadership and achievement in their professional fields.

Gido was recognized for her accomplishments in criminology — 25 years' experience in research, adult education, training and university teaching. Before joining Penn State in 1994, she served as director of the Office



Rosemary L. Gido

of Program and Policy Analysis for the New York State Commission of Correction. She directed the first national longitudinal study of inmates with HIV/AIDS in the New York State prison system and received the National Academy of Criminal Justice Sciences Outstanding Paper Award for this research. The author of the forthcoming text (with Ted Allemen) *Turnstile Justice: Issues in American Corrections* and numerous journal articles and reports, Gido received the 1990 public service award for her work in the establishment of Project Safe, a program for juvenile prostitutes in Schenectady, N.Y.

Evan Pugh professor honored for research in low-temperature physics

Moses H. W. Chan, Evan Pugh professor of physics, has been honored with the Fritz London Prize in Low-Temperature Physics in recognition of his outstanding and wide-ranging contributions in low-temperature physics research.

The prize is awarded every three years. Chan is one of three physicists to receive the award this year. His research is aimed at answering, or raising, fundamental questions about matter in its various phases.

Moses H. W. Chan

Most recently, Chan and his research group introduced fluids into aerogels — highly porous glasses in which atomically thin silica strands interconnect at random sites, forming the skeleton of a very open structure.

The award is administered by Duke University and supported by endowments from Nobel Laureate John Bardeen, the organizers of the International Conference in Low-Temperature Physics and Horst Meyer, the Fritz London Professor of Physics at Duke University, as well as by a gift from Oxford Instruments.

Chan earned a bachelor's degree, magna cum laude, in physics at Bridgewater College in Virginia in 1967 and master's and doctoral degrees in physics at Cornell University in 1970 and 1974. He held positions as assistant lecturer at the University of Hong Kong, research associate and instructor at Duke University and assistant professor of physics at the University of Toledo before joining the Penn State physics faculty in 1979. He was honored with the titles of distinguished professor of physics in 1990 and Evan Pugh professor of physics in 1994.

His honors outside Penn State include the Japan Society for the Promotion of Science Senior Research Fellowship in 1982, the John Simon Guggenheim Fellowship in 1986 and being named a Fellow of the American Physical Society in 1987.

The ARTS

AT PENN STATE



On stage
Sheila Tussey, left, and Kenneth Martinez rehearse a scene from "The Baby Blues." The play, which runs through July 29, will close the season for Pennsylvania Centre Stage.

"The Baby Blues" to close Centre Stage season

The United States premiere of Drew Hayden Taylor's "The Baby Blues" will close Pennsylvania Centre Stage's 1996 season.

Centre Stage audiences will have until July 27 to catch this special production, in the Pavilion Theatre on the University Park Campus. After that, it will pack up and go to the off-Broadway Vineyard Theatre in New York.

"The Baby Blues" will transform the Pavilion Theatre into a Pow wow, where a fancy dancer intent on finding someone with which to spend the weekend finds his past catching up with him instead. Three generations of memorable characters become entwined in a spirited tale full of rollicking fun.

Taylor captures the essence of the North American Indian experience with honesty, clarity and humor. "The Baby Blues" is the second part of a much-heralded four-part quartet. Beisy Theobald, who has directed other Taylor works, directs "The Baby Blues."

"The Baby Blues" plays 8 p.m. 18-20, and 23-27 in the Pavilion Theatre; Saturday matinees are 2 p.m. July 20 and 22. Prices are \$22 for non-students and \$19 for students.

For tickets or more information, contact the Arts Ticket Center, open Monday through Saturday, 8:30 a.m. to 4:30 p.m., at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Australian films and exhibit

The Australia-New Zealand Studies Center and the Office of Summer Sessions will co-sponsor a two-day festival dedicated to Australian short films on July 21-22 at University Park. The films will begin each night at 7:30 p.m. in the Carnegie Building Theatre on campus.

Early works by well-known Australian directors will be featured Sunday night, including "One Hundred A Day," a 1973 film by Gillian Armstrong; "Passionless Moments," a 1984 film by Jane Campion; and "Leisure," a 1974 film by Bruce Petty and Suzanne Baker.

Monday, July 22, films are a mix of recent award-winning shorts, including "Palace Cafe," "Excursion to the Bridge of Friendship," which is a silent musical, "Road to Alice," "Rosie's Secret," which focuses on a forgotten figure in Australian history, and "Universal Appliance Co.," a film about advertising and romance.

Two Australian film experts from the Walters Art Gallery in Baltimore will introduce each film during the series and respond to questions from the audience.

Meanwhile, an Australian photograph exhibit, "My Favorite Place," will continue to be on display in Kern Building through Sunday, July 21. The exhibit, on loan from the Australian Embassy in Washington, D.C., highlights Australia's landscape, architecture, urban scenes, and flora and fauna.

For more information on the film festival or photo exhibit, contact the Australia-New Zealand Studies Center at (814) 863-1603.

Barry Manilow concert

The Community Arts Center, a part of the Pennsylvania College of Technology in Williamsport, will host a Sept. 4 concert by Barry Manilow. The Manilow concert is the lead-off attraction for the center's 1996-97 season. Patrons wishing to subscribe to the season will enjoy an exclusive sales period through July 28.

For information about the concert or special accommodations for fan club members, call the center at (717) 326-2424.

Paintings in Pattee

An exhibition of paintings by Dan Evanoff will be on display in Pattee Library's Lending Service Gallery through July 31.

Evanoff looks to his environment for inspiration and many of his works are landscapes depicting his native Pennsylvania. Also included in this exhibition are still lifes and conceptual pieces.

Evanoff is a recent graduate from Edinboro University of Pennsylvania where he majored in anthropology and completed a minor in philosophy. This will be Evanoff's first art exhibition.

Pottery and glass exhibit

Shahnaz Lotfi will present an exhibition of pottery and stained glass in Pattee Library's East Corridor Gallery through July 31.

Lotfi relies on her Persian heritage for inspiration and uses Persian motifs in her work. She has been making pottery since 1986 and recently

began working with stained glass, which she finds "challenging and exciting."

Lotfi was born and raised in Kuwait and has lived in State College for 10 years.

Pattee exhibit

An exhibition of photographs and paintings by Klaus Grutzka is on display in Pattee Library's West Lobby Gallery through July 31.

Grutzka was born in Germany and moved to the United States in 1961. His paintings are influenced by the Precisionist works of Charles Demuth and Elsie Driggs. Grutzka focuses on scenes of America's industry and has photographed coal and steel mills across the country, many which no longer exist.

Grutzka has had numerous exhibitions throughout the northeast, including a one-man show at the Waldorf Astoria in New York City.

Reba McEntire to perform

Entertainer of the Year Reba McEntire, with Billy Dean and special guest Linda Davis, will appear in the round at The Bryce Jordan Center at 8 p.m. Friday, Aug. 16. Tickets are on sale at the Jordan Center Box Office, selected Uni-Mart ticket outlets, Commonwealth Campus ticket outlets, or by calling (814) 865-5555 locally, or toll-free at 1-800-863-3336. Tickets are \$31 for reserved seating. Limited V.I.P. seating is also available.

Olympians showcased

An exhibit titled "Going for the Gold: Penn State's Olympic Medalists" that commemorates past Penn State Olympians is on display in the University Archives/Penn State Room and main lobby of Pattee Library through Oct. 13.

The exhibit features Olympic medals, archival and personal photographs, newspaper clippings, press releases, memorabilia and magazine articles featuring the athletes who have represented Penn State for so many years.

Stories from the exhibit include Kurt Oppel's silver medal in figure skating representing Austria, Char Moret's field hockey superstars, Katsutoshi Naito's bronze medal as Japan's first Olympic medalist and many more. A small segment of the exhibit also features posters and information about volunteering and/or participating in the Special Olympics.

Assistant University Archivist Jackie Esposito coordinated the exhibit with the assistance of Olympic historian John Lucas, sports historian Ron Smith and Olympic participant Herman Goffberg.

Photo: Andrea Hurley

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, July 18

Music at Noon, Fisher Plaza Easterly Chamber Players, classical.

Pennsylvania Centre Stage, 8 p.m., Pavilion Theatre, "The Baby Blues," through July 27. For tickets, call 863-0255.

Friday, July 19

Ice Cream "Diversions," 7-8 p.m., Creamery patio. Deacons of Dixie.

Pennsylvania Centre Stage, 8 p.m., Pavilion Theatre, "The Baby Blues," through July 27. For tickets, call 863-0255.

Saturday, July 20

Pennsylvania Centre Stage, 2 p.m., Pavilion Theatre, "The Baby Blues," through July 27. For tickets, call 863-0255.

Sunday, July 21

■ Australian Mini Film Festival, 7:30 p.m., Carnegie Theatre. "One Hundred A Day," "Passionless" and "Leisure."

Monday, July 22

■ Australian Mini Film Festival, 7:30 p.m., Carnegie Theatre. "Palace Cafe," "Excursion to the Bridge of Friendship," "Road to Alice," "Rosie's Secret" and "Universal Appliance Co."

Dance Aerobics "Diversions," 8:30-10:30 p.m., White Bldg. Gym

Tuesday, July 23

■ Music at Noon: Fisher Plaza. Caribbean Trio, calypso.

GSA Film Series Explazanza 1996, 9 p.m., Fisher Plaza, The Humphrey Bogart Festival continues with a free showing of "The Treasure of the Sierra Madre." In case of bad weather, the film will be shown in Kern Building.

Pennsylvania Centre Stage, 2 p.m., Pavilion Theatre, "The Baby Blues," through July 27. For tickets, call 863-0255.

Wednesday, July 24

Pennsylvania Centre Stage, 8 p.m., Pavilion Theatre, "The Baby Blues," through July 27. For tickets, call 863-0255.

Thursday, July 25

Music at Noon: Fisher Plaza. Safe Sax, jazz. Pennsylvania Centre Stage, 8 p.m., Pavilion Theatre, "The Baby Blues."

Friday, July 26

Ice Cream "Diversions," 7 p.m., Creamery patio. Dixie Lion, divalent.

Pennsylvania Centre Stage, 8 p.m., Pavilion Theatre, "The Baby Blues," through July 27. For tickets, call 863-0255.

Saturday, July 27

Pennsylvania Centre Stage, 2 p.m., Pavilion Theatre, "The Baby Blues," final performance. For tickets, call 863-0255.

Monday, July 29

Dance Aerobics, "Diversions," 8:30-10:30 p.m., White Bldg. Gym.

Tuesday, July 30

Music at Noon: Fisher Plaza. Appalachian Spring, folk, classical.

GSA Film Series Explazanza 1996, 9 p.m., Fisher Plaza, The Humphrey Bogart film festival continues with a free showing of "Dark Victory." In case of bad weather, the film will be shown in Kern Building.

Wednesday, July 31

■ "Opera for the Movies," 7:30 p.m., Music Bldg. Recital Hall, "La Traviata."

Thursday, August 1

Music at Noon: Fisher Plaza. Triple A Blues Band.



Crafts National 30

"Sacred Heart," a 25-inch by 32-inch quilt by Carol Drummond of Sarasota, Fla., is among the items on exhibit through July 21 in Zoller Gallery, 101 Visual Arts Building on the University Park Campus. The juried exhibition is sponsored by the Central Pennsylvania Festival of the Arts and the College of Arts and Architecture.

Friday, August 2

■ Ice Cream "Diversions," 7 p.m., Creamery patio. Dan and Galla, Russian gypsy folk.

Tuesday, August 6

Music at Noon: Fisher Plaza. Simple Gifts will play instrumental folk music.

Thursday, August 8

Music at Noon: Fisher Plaza. The Jazz All-Stars.

Friday, August 9

■ Ice Cream "Diversions," 7 p.m., Creamery patio. The Bavarian Stompers.

SEMINARS

Thursday, July 18

Summer Seminar, 3:30 p.m., Penn State Room, Nittany Lion Inn. Matthew A. Bershad on "Weighing Galaxies over Cosmic Time Scales."

Thursday, July 25

Summer Seminar, 3:30 p.m., Penn State Room, Nittany Lion Inn. Graham Thomas on "From the Inside Out: Organizing the Surface of a Cell."

Saturday, July 27

College of Communications, The Penn State Scanticon. Penn State Literacy Summer Seminar—addresses the impact of the media on teaching. For registration, call (814) 863-5140.

Thursday, August 1

Summer Seminar, 3:30 p.m., Penn State Room, Nittany Lion Inn. Ken Feldman on "Elaborant Chemistry."

Friday, August 2

Seminar, The Penn State Scanticon. Robert T. Tauber and Cathy Sargent Mester on "Teaching Tools for Excellence: Using Performance Skills in the Classroom." This is a one-day workshop on teacher performance in the classroom and ability to project enthusiasm. To register call 1-800-PSU-TODAY.

CONFERENCES

Thursday, July 18

Issues in Choral Music, University Residence Halls. Through July 19.

Friday, July 19

Women's Clubs, The Penn State Scanticon. Through July 20.

Sunday, July 21

Agriculture in the Classroom, ASI Bldg. Through July 26.

21st Annual UCLEA Summer Institute, The Penn State Scanticon. Through July 26.

Second Mile Summer Challenge Camp, University Residence Halls. Through July 26.

Food and Ag Sciences Summer Workshop, ASI Bldg. Through July 27.

Monday, July 22

Noise Control for Buildings, The Penn State Scanticon. Through July 24.

Enter 2000, University Residence Halls. Through July 26.

Child Development: Learning and Early Education, The Penn State Scanticon. Through July 26.

Central Boiler Plant Operation, The Penn State Scanticon. Through July 26.

Tuesday, July 23

Advanced Hewlett-Packard Capillary Gas Chromatography, The Penn State Scanticon. Through July 26.

Thursday, July 25

Issues in Instrumental Music, University Residence Halls. Through July 26.

Friday, July 26

Material Heritage of the Civil War, The Penn State Scanticon. Through July 28.

Home Schooling Workshop, The Penn State Scanticon.

Sunday, July 28

Water Works Operators Association of PA, The Nittany Lion Inn. Through July 31.

Communications Workers of America District II, University Residence Halls. Through Aug. 2.

Nuclear Science and Cyberspace, University Residence Halls. Through Aug. 2.

Second Mile Summer Challenge Camp, University Residence Halls. Through Aug. 2.

Calculus Reform Workshop, University Residence Halls. Through Aug. 2.

Monday, July 29

Customer Service & Logistics Work Teams, The Penn State Scanticon. Through July 29.

Building Heating Systems, The Penn State Scanticon. Through Aug. 2.

EXHIBITS

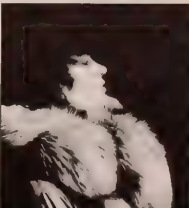
Palmer Museum

"Centennial: State College Remembers," 1896-1996, through Aug. 25.

"Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5, 1997.

■ Reflects an international perspective



On display

Robert Mapplethorpe's "Self Portrait as Transvestite" is included in the exhibition "Abstraction to Figure: Selections of Contemporary Art from the Pincus Collection," on display at the Palmer Museum of Art through Dec. 15.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Summer Quality Academy

This summer one of the new quality initiatives of the American Association for Higher Education will be a Summer Quality Academy, "Organizing for Learning," in Breckenridge, Colo., on July 27-31. The aim of the academy is to provide an environment rich in ideas, examples and conversation within which a college's leadership team can create new visions of learning for themselves, their colleagues and their students, and develop strategies for further dialog and action.

Academic leaders in teams from more than 30 institutions will attend the academy. Among the participants from Penn State are Robert Secor, vice provost; Ingrid Blood, associate professor of speech education and communication disorders; Scott Kretchmar, professor of exercise and sport science and chair of the University Faculty Senate; John Lowe, professor of chemistry; and Jeremy Cohen, professor of communications.

Improving communication

An area for improvement revealed by Penn State's recent Faculty/Staff Survey is communication between faculty and staff and between staff and supervisor. Steven Covey, author of *Principles Centered Leadership*, writes about communication: "Communication is primarily a function of trust, not of technique. When the trust is high, communication is easy, it's effortless, it's instantaneous and it's effective — it works."

In your mailbox

Look for the upcoming Human Resource Development Center course schedule featuring new CQI panel discussions for fall semester.

For more information about *Continuous Quality Improvement*, please contact Louise Sandmeyer, executive director of the CQI Center, 863-8721, or ls1@psu.edu.



Blood drive

Lloyd Peterson has his blood pressure checked before making his 100th blood donation. A former employee of the College of Earth and Mineral Sciences, Peterson is now a member of the College of Engineering.

The American Red Cross will conduct a blood drive at Old Main from 9 a.m. to 3 p.m. Tuesday, Aug. 13, in the parking lot behind the building. From a specially equipped air conditioned vehicle, workers hope to collect 30 to 36 pints of blood. All donors will have an opportunity to win a lunch for two at the Allen Street Grill. For information, call Connie Schroeder, Red Cross blood services campus coordinator, at 237-2713. Appointments are required.

There will also be a blood drive from 10 a.m. to 4 p.m. Wednesday, July 31, at the Housing and Food Services Building. Walk-in donors are welcome, but appointments are recommended. To make an appointment, call Gloria Olsen at 865-6388.

Photo: Andrea Hurley

University awarded grant to study substance abuse

Penn State has been awarded a four-year research grant to establish a center to study substance abuse and its prevention.

The Center for the Study of Prevention through Innovative Methodology, based in the College of Health and Human Development, is being funded by the National Institute on Drug Abuse. The facility, which will support collaborative work by faculty from health and human development and the Eberly College of Science, brings together faculty and graduate students involved in four separate research projects that focus on new ways to study drug and alcohol abuse and its prevention.

Researchers at the center also will work with data from a longitudinal study of young adults who originally participated in an alcohol prevention program when they were in junior and senior high school.

Linda Collins, professor of human development and family studies, will direct the center, and John Graham, professor of biobehavioral health, will serve as associate director.

Participants in the center plan to disseminate their research information and developments through conferences, the Internet and a speaker's series.

Department of Sociology output eighth in nation

During the period 1991-95, the sociology department was ranked eighth in the nation in the number of articles published in three leading journals: *American Sociological Review*, *American Journal of Sociology* and *Social Forces*.

National Research Council figures show that, based on scholarly output, the national ranking of Penn State's sociology department went from 53rd in 1982 to 18th in 1995. Frank Clemente heads that department.

Penn State's sociology department is also the only one in the country to have three FIRST awards from the National Institute of Mental Health. The awards recognize promising young faculty in the social sciences.

CEOs sought for Hazleton and Wilkes-Barre

Candidates are being sought to fill the top position at two Penn State campuses. Campus executive officers for both the Penn State Hazleton Campus and the Penn State Wilkes-Barre Campus are needed to fill slots created when **James J. Staudenmeier** retired from Hazleton earlier this year and **William Pearman** left in 1994 to take a position at the University of Hawaii. Since that time, **Thomas G. Winter** has been serving as Wilkes-Barre's acting-CEO.

The CEO is the chief administrative officer of the campus and is responsible for administering all of its programs. The CEO also is responsible for maintaining close relationships with the campus communities, including outreach and fund-raising programs. Candidates for this position should have an earned doctoral degree, several years experience in college and/or university teaching and substantial experience in academic administration.

The Hazleton Campus is on a 75-acre mountain-top site near the intersections of I-80 and I-81. It serves the Greater Hazleton Area in southern

Luzerne County, as well as the six surrounding counties. Hazleton has a full-time enrollment of more than 1,330 students, as well as continuing education programming for adult and nontraditional students.

The CEO Search Committee for the Hazleton Campus, headed by **David R. Richards**, instructor in computer science at Hazleton, includes: **Terri L. Brooks**, dean of the College of Communications; **Edward Demsey**, student government president; **Hazleton, J. Thomas Eakin**, assistant vice president for student affairs; **Carl S. Frankel**, assistant professor of biology at Hazleton; **Maryam Ghoreishi**, instructor, Hazleton; **Michele Jais**, director of enrollment management; **Hazleton, Karen W. Sandler**, CEO, Penn State Abington-Ogontz Campus; and **Michael A. Santulli**, assistant professor of philosophy at Hazleton.

The Wilkes-Barre Campus is located 12 miles west of Wilkes-Barre and serves a large metropolitan area, as well as 13 surrounding rural counties. More than 800 students are enrolled there.

The search team for the Wilkes-Barre Campus CEO includes: **Priscilla Allison**, assistant professor of speech communication at the Wilkes-Barre Campus and chair of the search team; **Alan French**, associate professor of biology, Wilkes-Barre; **Linda C. Higginson**, assistant to the vice president, Commonwealth Educational System; **Mark Moran**, assistant professor of library science at Wilkes-Barre; **Anil Kaushal**, instructor in general engineering at Wilkes-Barre; **Ina Lubin**, director of continuing education for the campus; **Eugene R. Melander**, associate vice provost; **Sheri Nesbitt**, student government president at Wilkes-Barre Campus; and **Joseph C. Strasser**, CEO, Penn State DuBois Campus.

Interested candidates should send information to **John Leathers**, associate vice president for the Commonwealth Educational System, 111 Old Main, Department CHHN, University Park, Pa. 16802. Deadline for application for both positions is Friday, Aug. 19, or until a suitable candidate is selected. Women and minorities are encouraged to apply.



Lake dedicated

Former President Eric Walker, left, student body leader Robert Bahrenburg and Larry Perez, former faculty member in the Department of Civil Engineering and assistant dean of the College of Engineering from 1956-1970, examine the model for Stone Valley Recreation Area in his 1967 photo. The lake, named Lake Perez after its developer, was formally dedicated July 15.

Photo: Courtesy of the Pennsylvania State University Archives

"LionCam" offers live view of festival

Visitors to the front lawn of Old Main these days should be excused for feeling the whole world is watching — it is.

Beginning July 10, pictures of the front lawn of the University's main administration building on the University Park Campus are being taken with a camera the size of a paperback book and posted automatically to the World Wide Web.

"LionCam" takes a new picture every two minutes through a program written especially for this project and then sends it over the network to the Web server. Users don't see any of this, but simply hit the "reload" button on their navigational tool's window to see the latest view, complete with the time stamped on the image.

To view what "LionCam" is seeing, go to the Web and type in <http://www.ur.psu.edu/cam/lioncam.html>

During its first week of operation, the project — a collaboration among the offices of University Relations,

Computer and Information Systems, the Center for Academic Computing and the Alumni Association — picked up images of the Central Pennsylvania Festival of the Arts bandshell and portions of the lawn that were bustling with activity. In less than 30 minutes of the first pictures being posted to the Web nearly 100 people took a look. Each hour after that, the total kept climbing as the word spread throughout the Net. Within two hours, the total topped 500 visitors to that single Web page alone, and visitors included people from several parts of the University's 23-campus system, as well as visitors from other states as diverse as Delaware and Oregon.

A link at the site gives users the option of checking the weather forecast for State College, Pennsylvania and the nation and also gives those with access to the Web another way of "visiting" the University, keeping in touch with people and events on campus and across the University of Web sites throughout the University.

Faculty/Staff Alerts

Next issue is Aug. 8

Because of scheduling difficulties, the next issue of *Intercom* will be Aug. 8 — not Aug. 1 as previously advertised. Deadline for copy for that issue is noon Wednesday, July 31. Anyone with questions about *Intercom*, this schedule change or deadlines, should contact **Lisa Rosellini**, editor, at (814) 865-7517.

Intercom schedule

The *Intercom* publication schedule for the coming academic year follows. Please note deadline dates for any copy to be published in *Intercom* are always Wednesday at noon, one week and one day prior to the publication date. The only exception to this is the July 10 issue, because of the July 4 holiday, deadline for that issue will be noon Tuesday, July 1.

Date of Issue	Deadline for copy	Date of Issue	Deadline for copy
Aug. 15	July 8	Feb. 13	Feb. 5
Aug. 29	Aug. 21	Feb. 20	Feb. 12
Sept. 5	Aug. 28	Feb. 27	Feb. 19
Sept. 12	Sept. 4	March 6	Feb. 26
Sept. 19	Sept. 11	March 20	March 12
Sept. 26	Sept. 18	March 27	March 19
Oct. 3	Sept. 25	April 3	March 26
Oct. 10	Oct. 2	April 10	April 2
Oct. 17	Oct. 9	April 17	April 9
Oct. 24	Oct. 16	April 24	April 16
Oct. 31	Oct. 23	May 1	April 23
Nov. 7	Oct. 30	May 15	May 7
Nov. 14	Nov. 6	May 29	May 21
Nov. 21	Nov. 13	June 12	June 4
Dec. 5	Nov. 27	June 26	June 18
Jan. 16	Jan. 8	July 10	July 1
Jan. 23	Jan. 15	July 24	July 16
Jan. 30	Jan. 22	Aug. 7	July 30
Feb. 6	Jan. 29		

Anyone with questions about *Intercom* or who would like a copy of the publication schedule, please contact **Kathy Norris** by e-mail at KLNI@PSU.EDU.

The Internet and How You Can Make It Work

The University Libraries and Computer and Information Systems are offering seminars this summer for anyone who would like to know more about the Internet.

A list of seminars can be found at <http://libserv.cac.psu.edu/libweb/training/altsummer.html>. For more information, contact **Susan Shields** at (814) 863-9532 or e-mail sls10@psu.edu. Courses include:

World Wide Web for Windows

This seminar will introduce the Web and a popular Web client, Netscape. Prerequisites: Basic IBM/Windows skills. No registration required. **Section 3:** Aug. 14, 3-4 p.m., Wagner IBM Lab; and **Section 4:** Aug. 15, 11 a.m.-noon, Wagner IBM Lab.

World Wide Web for Macintosh

This seminar has the same format as the Windows version. Prerequisites: Basic Macintosh experience. No registration required. **Section 3:** Aug. 14, 11 a.m.-noon, Wagner Mac Lab; and **Section 4:** Aug. 15, 3-4 p.m., Wagner Mac Lab.

Eudora (e-mail) on the Macintosh

This hands-on seminar will introduce electronic mail and the basic Eudora commands necessary for sending, receiving and managing electronic mail. Prerequisites: An access account and experience with Macintosh operating System 7 or later. No registration required. **Section 3:** Aug. 14, 9:30-10:30 a.m., Wagner Mac Lab; and **Section 4:** Aug. 15, 1:30-2:30 p.m., Wagner Mac Lab.

Eudora (e-mail) for Windows

This seminar has the same format as the Mac version. Prerequisites: An access account and experience with Windows. No registration required. **Section 3:** Aug. 14, 1:30-2:30 p.m., Wagner IBM Lab; and **Section 4:** Aug. 15, 9:30-10:30 a.m., Wagner IBM Lab.

Student-athletes surpass NCAA graduation rate

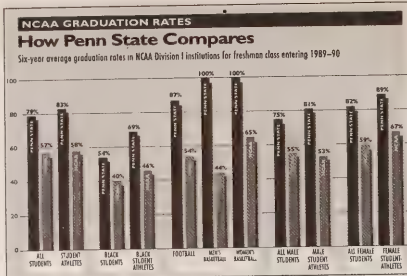
Penn State student-athletes have posted their best academic performance on record, scoring significantly higher in graduation rates than the average for NCAA institutions nationally, according to a nationwide NCAA survey.

The survey revealed that student-athletes in Penn State's entering freshman class of 1989-90 had a graduation rate of 83 percent, compared to the 58 percent average for NCAA institutions nationally.

Penn State student-athletes also have topped their own previous best record. The 83 percent rate is the highest for Penn State athletes since the NCAA first compiled and published such reports in 1992. The previous high was 78 percent for the entering classes of 1986-87 and 1987-88.

The survey also found that student-athletes at the University Park campus outperformed other Penn State undergraduates by four percentage points. According to the survey, 79 percent was the average six-year graduation rate for all Penn State students in the class of 1989-90.

Penn State's student-athletes also were well above national norms in football, men's basketball and women's basketball. In football, the Nittany Lions had a graduation rate of 87 percent, compared to the 54 percent NCAA average. It was the Lions' sec-



ond-best ranking in the six-year history of the survey, topped only by the 92 percent success rate for the entering class of 1987-88.

In both men's and women's basketball, Nittany Lions and Lady Lions entering in 1989-90 had a graduation rate of 100 percent, compared to the overall NCAA graduation rates of 44 percent in men's basketball and 65 percent in women's basketball.

"This is extremely good news," John Coyle, Penn State's NCAA fac-

ulty representative, said. "Our goal always has been to graduate our student-athletes at a rate consistent with the rest of the University Park student population. The achievement we see in the most recent set of statistics is exceptional."

"This report reinforces the work our athletic administrators, coaching staff, academic support center and, most important, the young men and women on our various teams have done to emphasize academic performance."

Continuing a six-year trend, the report showed African-American graduation rates for student-athletes well above both general Penn State student and national norms. Led by a perfect 100 percent rate for black women athletes, Nittany Lion and Lady Lion African American athletes posted a figure of 69 percent, 15 percentage points better than the undergraduate population at University Park (54) and 23 points above the national average (46) for all institutions.

Female student-athletes at Penn State logged an 89 percent rate to edge their male counterparts, who graduated at an 81 percent clip.

Among student-athletes who exhausted their eligibility, the graduation rate for the survey sample soared to 91 percent.

NCAA bylaws require the University to provide graduation rate information to recruits and their parents. The NCAA provides a compilation of the data to guidance officers and high school and two-year college coaches. The NCAA bases its survey on graduation within six years of enrollment.

This is the sixth release of institutional graduation rates since national "right-to-know" legislation was passed in 1990.

Lectures

Civil War catalyst to be topic of talks

John Brown, who is said to be a catalyst for the American Civil War, will be the topic of a symposium at the Penn State Mont Alto Campus from July 24 to 27. Almost two centuries after his birth and 137 years after his death, his legendary life and legacy continue.

Participants in this multidisciplinary symposium will hear lectures by historian Paul Finkelman from the University of Miami and the editor of *His Soul Goes Marching On: Responses to John Brown and the Harper's Ferry Raid*; novelist Bruce Olds, author of a recent novel based on John Brown's life, *Raising Holy*

Hell; and, author Edward J. Renehan Jr., author of *The Secret Six: The True Tale of the Men Who Conspired with John Brown*. Other sessions will include presentations of papers by scholars from various disciplines and a roundtable discussion. Participants also may tour Harper's Ferry and visit Gettysburg.

The conference fee includes all sessions, refreshments, an evening social, picnic and symposium agenda.

For registration information, contact Continuing Education, Penn State Mont Alto Campus, at (717) 749-6100.

Men's family roles, relationships to be examined

A national symposium to examine men's family roles and relationships is scheduled for Oct. 31 through Nov. 1 at the Nittany Lion Inn on the University Park Campus.

The symposium is organized particularly for those who teach and conduct research on family relationships and gender, graduate students with an interest in this area, and policy and program specialists.

The sessions will address four major issues: a historical and prospective look at men in families; the conditions under which men form families and invest in parenthood; men's contributions to marital relationships; and men as fathers.

Some of the speakers for the event include:

Steven Mintz, University of Houston; Jane Lancaster and Hillard Kaplan, University of New Mexico; Paul Amato, University of Nebraska; and John Gottman, University of Washington.

The symposium, sponsored by the Population Research Institute, the departments of Sociology, Human Development and Family Studies, Psychology and History, and the colleges of the Liberal Arts and Health and Human Development, was organized by Alan Booth, professor of sociology, and Ann Crouter, professor of human development, both at Penn State.

To obtain a brochure and registration materials, call or write Chuck Herd, Edward Building, University Park, Pa. 16802; (814) 863-1738.

Molecular biology lecture, exhibits set for Aug. 1-3

Penn State's 15th Summer Symposium in Molecular Biology, titled "Apoptosis: Death by Design," will take place from Thursday, Aug. 1, to Saturday, Aug. 3, at the University Park Campus.

H. Robert Horvitz, professor of biology and Howard Hughes Medical Institute investigator at Massachusetts Institute of Technology, will present the Thomas J. Watson Lecture in Molecular Biology at 7:30 pm Thursday, Aug. 1, at the Penn State Scenic Center. This keynote address is open to the public. Also open to the public are the symposium's industry exhibits on current research directions in molecular biology and the latest biotechnology-oriented products and services. Exhibits are open all day Thursday and Friday, Aug. 1-2, and Saturday, Aug. 3, at the Penn State Scenic Center.

Horvitz's lecture is titled "Genetic Control of Programmed Cell Death in the Nematode *Caenorhabditis elegans*." His focus, like that of the symposium, will be on programmed cell death, the process by which cells commit suicide as a normal aspect of development. Horvitz's most general major discovery is the demonstration that specific genes play highly specific roles during animal development and behavior. He has identified and characterized genes that control specific aspects of cell lineage and cell fate, including the division patterns expressed by particular cells. He has served on numerous editorial boards, advisory committees and advisory committees. He was president of the Genetics Society of America in 1995.

The symposium is co-chaired by Robert A. Schlegel, professor of biochemistry and head of the Department of Biochemistry and Molecular Biology, and Patrick Williamson, professor of biology, Amherst College.

Technology transfer

Project cited as a model collaboration effort

By BARBARA HALE
Public Information

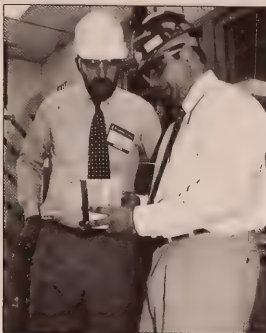
A University research and development partnership—recently cited as a model collaboration among industry, education and state government—owes its success to a mix of serendipity, science and business savvy, participants said.

The project, a collaboration between Cabot Performance Materials of Boyertown, Pa., and Penn State's Center for Dielectric Studies (CDS), was one of four nationally selected programs cited recently at the Industrial Research Institute's University-University Research Collaborations conference.

Cabot made the savvy business decision to link up with the University to develop its new product, according to **Joseph Dougherty**, CDS director. Cabot supplies the materials needed to make ceramic capacitors, which store electric charges and are used in virtually every modern electronic device. The firm's contributions to the partnership included project direction, funding and in-kind research services.

Savvy too was the Commonwealth of Pennsylvania, through its Ben Franklin Partnership Program, which provided the matching funds which ultimately persuaded Cabot to go ahead with the project. The Ben Franklin Program invests matching funds in the development of new or improved products and processes with start-up, small- and medium-size Pennsylvania manufacturing and technology-based companies.

The science was carried out by CDS faculty members, post-doctoral students and students. The serendipity came into play when one of the post-docs, **Umesh Kumar**, was working on an unfunded side project that was just a "blue sky, skunk works" sort of effort, according to Dougherty.



Good news

The partnership between Cabot Performance Materials and Penn State's Center for Dielectric Studies has benefited not only the University and Cabot, but also Pennsylvania—which has seen new jobs and economic development.

In manufacturing capacitors, powders are heated and used to make the ceramic devices. Dougherty recalls that Kumar was testing all of the capacitor powders available at the center to see if he could lower the temperature at which the powders needed to be heated in order to make them stick together or sinter by modifying them with bismuth, an additive used routinely in the industry. Commercial

manufacturers sinter the powders supplied by Cabot and other providers to make ceramic capacitors by the billions each month.

Since the Penn State center is one of the leaders in the ceramic electronics field and has contact with nearly all of the powder companies, samples from virtually every commercial provider were on hand, Dougherty said. Kumar found that only one sintered at a lower temperature—and it was from Cabot.

Recognizing the unique combination of the Cabot powder and the bismuth additive, Dougherty contacted the firm and suggested an R&D partnership to accomplish the additional work needed to refine the technology. The company recognized the partnership as a way to support the development of a line of special products at relatively low costs, Dougherty said. It also saw the partnership as a means to share the risks of new technology development.

After Ben Franklin support was secured and the project was about to get under way, one last bit of serendipity and business savvy came into play. **Stephen A. Constantino**, who earned his doctorate in materials at Penn State in 1991, happened to be employed at Cabot. He also happened to have been a CDS-sponsored student. He was assigned to manage the project.

Today, Cabot has made a major capital commitment for the expansion of their production facility in Boyertown. This is due, in part, to the success of the partnership and the scientific contributions from CDS faculty members. Penn State has reaped research funds, graduate student support, better understanding of industry needs, intellectual property and publications. Pennsylvania has benefited from new job creation, increased revenues and economic development.

Private giving sees sixth consecutive year of growth

Penn State received a record \$83.2 million in private gifts in the fiscal year ending June 30, 1996—the sixth consecutive year that giving to the University has increased. About 106,900 alumni, individual friends, corporations and other organizations made donations.

Six years ago, in 1990-91, the University received \$61.4 million in gifts from 93,700 donors. In 1994-95, 108,000 donors gave \$82.8 million. (See chart on page 100).

"This is wonderful news because it shows that Penn State continues to enjoy an incredibly broad base of support," President **Graham B. Spanier** said. "These gifts, which we use according to the donors' wishes, help us to meet many of our most critical needs in such areas as scholarships, library acquisitions, faculty endowments and laboratory equipment."

Rodney P. Kirsch, vice president for development, said he also was

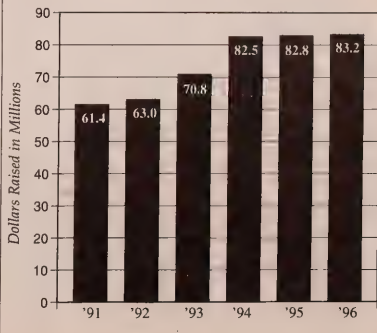
pleased with the record level of donations, especially since the University had not launched any new fund-raising campaigns in 1995-96.

Gifts included \$26.8 million from 62,700 alumni; \$14.2 million from 37,900 individual friends; \$25.3 million from 4,800 corporations; \$9.8 million from 262 foundations; and \$7 million from 1,200 other organizations.

President Spanier cautioned that philanthropy should be considered an enhancement and not a substitute for public funds.

"Private gifts enable us to improve the quality of many of our programs to the point where they achieve national distinction," he said. "And they help us attract the best students and faculty. But we must still look to the state and national governments to provide adequate support for our core mission, and we will continue our efforts to secure adequate funds for those purposes."

GROWTH IN PRIVATE SUPPORT



Appointments

Interim dean appointed in College of Agricultural Sciences

Theodore R. Alter, professor and head of the Department of Agricultural Economics and Rural Sociology in the College of Agricultural Sciences, has been named interim dean of the college, effective July 1.

Alter succeeds James L. Starling, interim dean and professor of agronomy, who has been in that capacity since January, and has announced his intention to retire. (See story, page 21) Alter will serve for one year, or until a new dean has been identified.

Alter has served as professor and head of the agricultural economics and rural sociology department since 1994. In 1989 to 1994, he was regional director of the Southeast Region for Penn State Cooperative Extension, serving Berks, Bucks, Chester, Delaware, Lehigh, Montgomery, Northampton, Philadelphia and Schuylkill counties.

There he was responsible for providing leadership programming and administration in all extension programs, including 4-H and urban gardening, horticulture, agronomy, livestock, dairy, agricultural marketing, farm management, resource management, urban and community forestry, family living, family finance and nutrition.

Joining the Penn State faculty in 1976 as an assistant professor of agricultural economics, Alter was named associate professor in 1982 and professor in 1989. His primary areas of teaching have included state and local government finance, local government financial management, land and water resource policy, land economics, cost-benefit analysis and institutional economics.

His research has included a study of the impact of public school finance reform on Michigan's agricultural population, the evaluation of land use policies issues related to fiscal impacts, property taxes and rural development. He was adviser and analyst for the Rural Public Management Project for the Organization for Economic Cooperation and Development in Paris from 1987 to 1989.

Alter is director of the Pennsylvania Food System Professions Education Initiative and served as director of the college's Urban Programs Study from 1987 to 1990.

Alter graduated from the University of Rochester with distinction in economics in 1968, received his master of science degree and doctorate in resource economics and policy from Michigan State University in 1973 and 1976, respectively, where he also was a National Defense Education Act Fellow.

Wilkes-Barre Campus welcomes instructional design specialist

Barbara Brazon recently joined the Penn State Wilkes-Barre Campus as instructional design specialist.

In the newly created position, Brazon will provide support and guidance to the campus faculty in creating multimedia learning resources in the class-

room as well as for public presentation. This position is part of "Project Empower," the University's new initiative for Commonwealth Educational System campuses, which aims to enhance active and collaborative learning in the classroom through the use of computers and telecommunications technologies.

Brazon received an associate degree in dental hygiene from Temple University and a bachelor's degree in education and a master's degree in instructional technology, both from Bloomsburg University. Formerly, she was clinical instructor of dental hygiene at Luzerne County Community College for 13 years.

A member and past president of Sigma Phi Alpha, the National Dental Hygiene Honor Society, Brazon also holds membership in the national, state and county dental hygienists associations. She holds certificates from the Pennsylvania Department of Education and the National Board in Dental Hygiene as well as the Northeast Regional Board of Dental Examiners, and is a licensed Pennsylvania dental hygienist.

Assistant director at Mont Alto earns promotion

Penn State Mont Alto Campus assistant director of student affairs and financial aid officer Andrea

Christopher has been named director of student affairs, effective July 1. Christopher replaces Kirk Manning, who has accepted the position of dean of students at Lyndon State College in Vermont.

Christopher will have direct responsibility and management of the student affairs office at the Mont Alto Campus, which includes admissions, campus life, residence life, health services, counseling services, judicial affairs, student activities, minority affairs and athletics.

A member of the Mont Alto Campus staff since 1975, Christopher received her B.A. from the State University of New York at Cortland and her master's in education from Penn State. She has served in a number of positions including her current one as financial aid officer and assistant director of student affairs, acting director of student affairs and assistant to the director of student affairs. In her tenure at the campus, Christopher has received The John F. Benchoff Award for Excellence in Service, the Commonwealth Educational System Outstanding Service to Students Achievement Award and the Penn State Mont Alto Service to the Campus Award.



Theodore R. Alter



Barbara Brazon



Andrea Christopher

Hazleton office reorganization results in position changes

A new Office of Enrollment Management has been established at Penn State Hazleton, and the Office of Student Affairs has been reorganized.

Michele S. Jais has been named director of enrollment management at the campus and is in charge of recruitment and admissions, financial aid, analysis of market information and the development of strategies for recruitment and admissions, and counseling programs for prospective students and their families.

Jais currently holds the position of registrar at Penn State Hazleton; she will continue to hold that position within the new organization. She joined Penn State in 1978 as an assistant to the director of academic affairs, providing assistance in advising, admissions and student class scheduling, and was promoted to the position of registrar in 1981.

A graduate of Penn State with a B.A. degree in English, she earned an M.S. degree in organizational management from College Misericordia in 1995.

Within the office, Joan Delese also has been promoted to the position of admissions counselor. She holds an associate degree in business administration from the Penn State Hazleton Campus.

In the Office of Student Affairs at Hazleton, Dwayne Hilton has been named acting director. His responsibilities include development of student orientation programs, resident life activities, student clubs and organizations, the Office of Health Services and campus athletic programs.

Hilton joined Penn State in 1979 as a counseling and advising specialist in the Division of Undergraduate Studies at University Park. He came to the Hazleton Campus in 1986 as assistant director in the Office of Student Programs and Services. Hilton's degrees from Penn State include a B.S. in rehabilitation education, a master's of education degree in counseling and educational psychology and a doctoral degree in higher education organization and administration.

The new Office of Enrollment Management and the reorganization of Office of Student Affairs will enable the campus to be more responsive to the needs of campus students and to have a more effective enrollment planning effort.

Shenango names occupational therapy assistant program director

The Penn State Shenango Campus has named Bernadette Hatjar Seaburn as director of its new occupational therapy assistant program.

She has been working part time for the campus since February 1996. Before that, she was an instructor in occupational therapy at Kent State University in Ohio from 1993-96.

Seaburn received her master's degree in health education from the Shenango Campus and her occupational therapy degree from Texas Women's University, Dallas.

In addition to her teaching and administrative responsibilities, she works as an occupational therapist for Horizon Hospital System in Greenville, Pa.

Partings

Longtime employee wore many hats during career

David F. Mercer, administrative director of the American Center for the Study of Distance Education and affiliate associate professor of adult education, retired after more than 24 years of service at the University.

As administrative director of the center since 1994, he was responsible for day-to-day operations. The center is a cooperative activity of the College of Education and Continuing and Distance Education.

Previously, Mercer was director of the Independent Learning Program in the C&DE Department of Distance Education for more than 23 years. During his tenure, he developed agreements with the colleges to offer degree programs through independent learning, computerized the registration and records-keeping processes and oversaw the growth of the unit into the largest university-based independent learning program in the nation with a one-year enrollment of more than 29,000 students.

He also taught graduate courses in adult education for the College of Education. He was promoted to affiliate associate professor in 1982.

Before coming to Penn State, he was director of



David F. Mercer

independent study at the University of Colorado from 1968 to 1971. He served as a continuing education administrator at the University of Colorado in Grand Junction from 1966 to 1968. From 1963 to 1966, he was a graduate student at the University of Wisconsin, Madison, and assistant to the director of the Wisconsin Center, a conference facility.

Mercer earned a bachelor of science degree in industrial arts education from the University of Wisconsin, Platteville, and master's and doctoral degrees in curriculum and instruction from the University of Wisconsin, Madison.

In 1968, he was the recipient of the Gayle B. Childs Award for Distinguished Service to the Field of Independent Study awarded by the National University Continuing Education Association (NUCEA). From 1975 to 1976, he served as chairperson of the NUCEA Division of Independent Study.

During retirement, Mercer is traveling around the United States and visiting three of his children and their families in California, Texas and Florida. He also hopes to turn his avocation for woodworking into a vocation as co-owner of Classic Wooden Accessories.

Career comes full circle for producer/director in public broadcasting

Sandra G. Thomas, producer/director with Penn State Public Broadcasting, ended her more than 30-year career where she started — at a University radio station.

Thomas was a student volunteer and member of the group that founded WDFM radio station at University Park in December 1953. WDFM evolved into WPSU-FM, and during the last three years Thomas has contributed to the station's growth by producing, editing, recording, announcing, training staff members, answering phones and filling in wherever needed.

WPSU-FM now serves a potential audience of more than 400,000 Pennsylvanians.

She also was involved as an artist, camera operator and director in the early days of television at the University and participated in the Ford Foundation-funded experiment in the 1950s to find out if students could learn from televised instruction. The project led to the creation of the University's Division of Instructional Research and Services and ultimately to broadcast television at the University.

Thomas was producer/director of many University TV programs, including "Farm, Home and Garden" for the College of Agricultural Sciences; "The Now Show" and "Pennsylvania Magazine" for the Department of Public Information; and "Sew Smart," the first color TV series produced by WPSU-TV. For many years, she directed "What's in the News," "Weather World" and "Take Note."

Her main area of interest was in directing classical music programs. She produced and directed performance programs by the Alard String Quartet, the Pennsylvania Quintet and French Piano Pieces with soloist Marylene Dosse. She directed "Christmas at Penn State," a music program featuring the University's Glee Club and instrumental groups, which has aired annually on WPSU-TV since 1978.

During her career, Thomas received the Best Local Performance Award from the Eastern Educational Network and a Quality Achievement Award from Penn State Public Broadcasting. In addition, she was recognized for an award-winning "What's in the News" program on the Jonestown incident for WPSU-TV and promotional spots for Public Information.

She earned a bachelor of liberal arts degree from Penn State in 1956.

In retirement, she will continue as a volunteer classical music host and announcer at WPSU-FM. She is learning to play the viola. An avid gardener, Thomas will spend time tending her extensive perennial garden and plans to travel to San Diego, Calif., to visit her daughter Jo Ann.



Sandra G. Thomas

Two end service at ARL

Charles Wedlake retired as a program coordinator after 43 years of service at the Applied Research Laboratory. For the last eight years, he supervised the laboratory's steam plant facility.

Wedlake, a native of Lewistown, joined the Marine Corps after graduating from high school. Upon his discharge, he attended both Bliss Electrical School in Washington, D.C., and Coyne Electrical School in Chicago. Then he returned to Lewistown and began working for Standard Steel. In 1952, he became a technician for ARL.

During his career, Wedlake contributed to research at several ARL test sites. In 1970, he joined the Power and Mechanical Systems Department and remained there until his retirement.

Wedlake and his wife, Akre, have three sons and 13 grandchildren. During his retirement, he wants to travel and remodel his house. He says he'll miss the close friendships that he formed with his co-workers and plans to continue as a consultant with ARL.

Sylvester Scott is retiring as a guard after 30 years of service at the Applied Research Laboratory. In 1965, he joined ARL's staff and two years later became the overnight security guard. Despite working his midnight shift for 28 years, he now reports that he's getting used to sleeping through the night. After attending high school, Scott began a 13-year career in farming. Throughout his employment at ARL, he remained involved with his family farm in Bellefonte.

During his retirement, Scott wants to travel with his wife, Joanne, and will continue volunteering for his church. They have a daughter, a son and three grandchildren. Scott also plans to keep helping his son run the farm.

Library employee was member of interlibrary loan coordinating team

Jerry Olsen, a member of the interlibrary loan coordinating team, has retired from the University Libraries after 30 years of service.

Upon graduating from high school, Olsen began working at the Libraries in 1966 within photoduplication services.

He worked his way up to head of the department, where he remained for about 25 years. Just last year, Olsen began working with interlibrary loan when the Office of Business Services took over operation of



Jerry Olsen

photoduplication.

Throughout his three decades with the Libraries, Olsen has found great enjoyment in public service. He coordinated the Libraries' involvement with the Save the Children Federation and plans to continue working part time with the public in some other capacity, perhaps pursuing a second career in health care.

Partings

Several depart after many years of service

Jane M. Cross, staff assistant VIII with the Corporate Controller's Office, retired March 1. She joined Penn State in July 1965, working first in Housing and Food Services. She is a resident of State College.

Arnum R. Eichelberger, assistant manager in the Corporate Controller's Office, retired April 1. He began working for Penn State in 1966.

Leslie N. Firth, senior extension agent, College of Agricultural Sciences, from June 9, 1958, to April 1.

Janice E. Gummo, staff assistant VI with the Corporate Controller's Office, retired April 1. She joined the University in January 1972, working briefly in the College of Human Development before switching to accounting work with the Corporate Controller's Office. She now resides in Chincoteague, Va., and is active in church work and with such hobbies as needlework and refinishing furniture.

Marian L. Lockhart, poultry processor helper in the College of Agricultural Sciences, from Feb. 28, 1971, to March 30.

Ann M. Miller, staff assistant VI in the Philadelphia County Agricultural Extension Office, College of Agricultural Sciences, from Sept. 1, 1981, to March 30.

Joan N. Reish, staff assistant VIII in the Office of the President, has retired after more than 35 years with the University. She first worked in the admissions area in two blocks of time, from 1959-1967 and 1968-1973. Since 1973, she performed a wide variety of duties, including budget planning and reaccreditation projects, among others. She is a resident of State College.

Verna D. Smith, staff assistant V in the Office of the President, retired on April 1. She started work with the University in September 1972.

William L. Watson, community service officer with the Department of University Safety, has retired. During his more than 25 years at the University, he was responsible for campus patrol and safety, including traffic control and special events duties. He is a resident of Pleasant Gap and plans to work part time at Sears at the Nittany Mall. Lois R. Voth, program coordinator for the Hershey Medical Center, from April 7, 1980, to May 1.

Libraries dean departs to become Larsen librarian at Harvard College

Nancy M. Cline, dean of University Libraries since 1988, has been appointed the Roy E. Larsen Librarian of Harvard College, effective September. In that position, she will be responsible for overseeing more than 8.9 million volumes in 67 individual libraries and will represent Harvard in national organizations and professional associations.

Cline, who began her career at Penn State in 1970 as a documents librarian, was named head of the Governments Document Section in 1971, a position she held for nine years. She went on to serve as chief of the Bibliographic Resources Department until 1984, when she became assistant dean and head of bibliographic resources and services until 1988.

As dean, Cline is the chief administrative and academic officer for all of the University Libraries, which includes a central collection and six subject libraries at University Park and a library at each of 20 Penn State campuses across the state. Cline is responsible for collections in excess of 3.5 million volumes, as well as extensive holdings of maps, microforms, government publications, archives, computer databases and audio/visual materials.

During her tenure, endowments for the Libraries have increased to nearly \$9 million and she played a pivotal role in the successful completion of a capital campaign which raised \$14 million in gifts for a new building. She has also led the Libraries through significant changes, by incorporating the most recent technological advances and meeting the day-to-day student and faculty needs throughout the University. In 1994, she received Penn State's Award for Administrative Excellence.



Nancy M. Cline

Her expertise has been called upon by many organizations and governmental agencies, including the Library of Congress, U.S. Government Printing Office and Public Printer, Office of Technology Assessment, the National Research Council and the Middle States Association. She has been active in formulating policies relating to access of online informational resources, and in setting directions for the research and educational aspects of the national information infrastructure.

Currently president of the Association of Research Libraries, she also is a member of the American Library Association, EDUCOM and the Research Libraries Group, of which she serves on the board of directors and has served as chair of its finance and administration committee. She serves on the board of directors of the Association of American Colleges and Universities and has participated in the development of the National Digital Library Federation.

She has served on or been chair for several committees at Penn State, including the Commission for Women, the Council of Academic Deans, the University Council on Continuous Quality Improvement, the President's Budget Task Force, the Committee on Women and Minority Concerns and the Equal Opportunity Planning Committee.

Cline served on the University Planning Advisory Committee from 1984-86 and 1990-91, and participated in developing the University's first strategic plan for academic computing.

A native of Chambersburg, she received her A.B. in English and a master's of library science from the University of California at Berkeley.

Longtime professor earned emeritus rank

Richard L. Gordon, professor of mineral economics, has retired with emeritus rank after 32 years of service at the University.

Gordon is noted for his work on coal in the United States and Western Europe, but has also worked on electric power policy problems, public land issues, general energy policy questions and theoretical aspects of mineral exhaustion. In the 1960s, he suggested that the poor competitive position of European coal made rapid mine closings desirable. He then shifted to looking at the role of electric power in coal use in the U.S., which led to studies of electric power and its regulation. In the 1980s he recommended that electric power be deregulated.

While advising the U.S. Department of Interior on mineral leasing programs, he began research on the drawbacks of federal land policy and is preparing a paper on the desirability of less government land ownership.

Gordon received an A.B. in economics from Dartmouth College in 1956 and a Ph.D. in industrial economics from the Massachusetts Institute of Technology in 1960. He began his career as an economic analyst with Union Carbide Corp. in 1959 and in 1964 joined the First National City Bank of New York as an assistant economist. Before the year ended, he joined the University faculty as assistant professor of mineral economics.

In 1966 he became associate professor and in 1970 was named professor. In 1990 he was named MICAS University Endowed Fellow in mineral economics.

Gordon has written seven books on energy economics,



Richard L. Gordon

the latest in 1994 titled *Regulation and Economic Analysis*. He has also written more than 80 papers and many articles and book reviews. He advised approximately 40 Ph.D. and 50 master's degree students and served for 20 years as graduate officer for the mineral economics department. He designed or reorganized five courses in the department and plans to continue to teach the graduate course in energy economics that he designed.

In 1989, the government of Venezuela presented him with the Decoration of Andres Bello (first class) for significant contributions in the field of energy economics and for high-quality academic guidance to Venezuelan graduate students. In 1990, he was awarded Penn State's Faculty Scholar Medal in Social and Behavioral Science and in 1992, the International Association for Energy Economics gave him its award for distinguished contributions to the literature.

He has been a consultant to many government agencies, corporations and consulting firms and was a member of the Commission on Fair Market Value Policy on Federal Coal Leases established by Congress to address concerns over the Reagan administration's practices in coal leasing. He is a member of the International Association for Energy Economics and the Mineral Management and Economics Society.

Gordon plans to continue his research, writing and teaching, but hopes to continue and expand his appreciation for music as a subscriber to the Metropolitan Opera and the New York Philharmonic.

Partings

Interim dean had more than 42 years of service

James Starling, professor of agronomy and interim dean of the College of Agricultural Sciences, retired after more than 42 years of service. He has served as interim dean since January, succeeding Lamarine F. Hood.

A Virginia native, Starling received his bachelor's degree in agronomy with a minor in botany from Virginia Polytechnic Institute and State University in 1951. After two years of military service, he joined Penn State in 1954 as a graduate student, earning M.S. and Ph.D. degrees in agronomy with a specialization in plant genetics and statistics.

In 1957, he became a member of the agronomy faculty. Starling led research in

variety development and genetics of perennial grasses and other forage crops and taught at the graduate level. He served as head of the agronomy department from 1969 to 1985.

Starling was named associate dean for administration in 1985 and senior associate dean in 1993. In these roles, he was chiefly responsible for fiscal and personnel matters, strategic planning and development of facilities. He also provided direction to the college's farm operations and auxiliary enterprises such as the Dairy Herd Improvement Association and the Agricultural Analytical Services Laboratory.

He played key roles in significantly

expanding Penn State's land holdings and improving college facilities.

Starling has been a member of the University Faculty Senate and served on one of the first University Strategic Planning Committees as well as on many departmental and college committees. He was elected a Fellow in the American Association for the Advancement of Science in 1987 and is a member and former director of the American Society of Agronomy and the Crop Science Society of America. He also is a member and past president of the Pennsylvania Forage and Grassland Council and the Pennsylvania Plant Food and Protectant Education Society, and each has recognized him for distinguished service.



James Starling

Administrative assistant joined University in 1965

Barbara L. Smith, administrative assistant in The Smeal College of Business Administration's Commonwealth Educational System programs, has retired after more than 30 years of full- and part-time service at Penn State.

Smith became a part-time member of the college staff in 1965, serving in the finance-human resources area of the office. Before joining the University, she was a service representative for the Bell Telephone Co. from 1951 to 1959 and a part-time secretary for a member of the Pennsylvania House of Representatives from 1949 to 1951.

In 1974, Smith became a full-time college staff member with responsibilities in the record section and the associate degree program. A year later, she was named assistant to the



Barbara L. Smith

college's faculty director of the associate degree program at Commonwealth Campus. She was named administrative assistant to the director of business administration programs in CES in 1986, and served in that capacity until her retirement this year.

A resident of Pleasant Gap, Smith and her husband, Blair, have two daughters, Beth and Sue, who are both graduates of the University and are employed by Penn State. Smith currently volunteers with the Centre Community Hospital, the American Cancer Society and Reach for Recovery, a program for breast cancer patients. Her hobby is music and she performs with a group called "Outreach," which entertains at nursing homes.

Professor emeritus served 20 years in engineering

Kenneth Knott, professor emeritus of industrial engineering in the College of Engineering, retired after 20 years of service to the University.

Knott received an M.S. in industrial engineering from Penn State in 1966, and his Ph.D. from the University of Technology in Loughborough, England, in 1983. He began teaching at Penn State in 1977, having already spent more than 15 years as the managing director of his own firm. Before receiving his master's degree, Knott served as a full-time instructor for the Process Engineering Laboratories at Penn State.

Knott is a Fellow of the World Academy of Productivity Science, one of only 124 in the nation as of April 1995. He has also been a Fellow of the Institute of Industrial Engineers (IIE) since 1989, and served as a teaching Fellow of the Leonhard Center for the Enhancement of Engineering Education from 1992-93.

In addition, he has been a mem-

ber of numerous professional societies and is the recipient of a number of awards, including the American Society for Engineering Education's AT&T Foundation Outstanding Teaching Award (1993).

Knott was the faculty adviser to the student chapter of IIE at Penn State for 10 years and was the associate editor of *IIE Transactions*. From 1984 to 1989 he was an editor for the *Methods Time Measurement Journal* and from 1987-88 he was the North American associate editor of the *International Journal of Production Research*. During his time with Penn State, he co-wrote and contributed to several textbooks, in addition to a number of journals and manuals.

Knott is perhaps best known for his contribution to the development of innovative undergraduate and graduate courses, most notably IE 430, Industrial Projects. In it, senior students in industrial engineering are asked to help companies solve problems and improve productivity.

25-year Awards



Edward Bittner



Chris Maricondi



Annette Caruso



Donna Kerstetter



Michael Laubscher



Albert A. Rossman

Observing 25 years of service at the University are, from left, Edward Bittner, professor of chemistry; and Chris Maricondi, professor of chemistry, both at the Penn State McKeesport Campus; Annette Caruso, assistant professor of health education at the Penn State Abington-Ogontz Campus; Donna Kerstetter, staff assistant VII, Army ROTC, University Park; Michael Laubscher, director of Education Abroad Programs in the Office of International Programs; and Albert A. Rossman, plumber-fitter in the Office of Physical Plant.

Obituaries

Psychology professor, 60, dies of heart disease complications

Paul Richmond Cornwell, psychology professor, died June 28 of complications related to heart disease. He was 60.

Born in Detroit, Cornwell attended the University of Michigan and received his Ph.D. in psychology in 1964. After completing post-doctoral work at the University of Rochester, he joined the psychology department at Penn State as assistant professor. He was later named associate professor and then professor and University Scholars adviser.

He is survived by his wife, Gretchen, and his children Linda Cornwell, Jennifer Cornwell Colitti and Aaron Cornwell, and a grandson, Samuel Colitti.

Memorial contributions may be made to the University Scholars Program Fund at Penn State, 17 Old Main, University Park, Pa. 16802.

Longtime Food Services director, retired in 1984, dies

William N. Curley, director of Food Services for 30 years, died Wednesday, June 26. He was 73.

He was a graduate of Indiana University of Pennsylvania and joined the Army in 1942, serving in North Africa and Italy during World War II. Before working at the University, he worked for Raymond College. He retired from Penn State in 1984.

In addition to his wife, Martha Snyder Curley, he is survived by six sons: Stephen and Timothy Curley, both of State College; John Curley of Clifton Park, N.Y.; Michael Curley of Lancaster, William Curley of Chambersburg and Terence Curley of Mineral Point; two brothers and 12 grandchildren.

Memorial contributions may be made to the Nittany Lion Club, 157 Bryce Jordan Center, University Park, Pa. 16802, or to the American Heart Association, 1402 S. Atherton St., State College, Pa. 16801.

Associate professor was 37

Glenda Laws, associate professor of geography, died Sunday, June 23 at The Hershey Medical Center. She was 37 years old.

Laws is survived by her husband, Stephen Matthews of the Population Research Institute, her mother, Margaret, and brothers: Roger and wife, Jackie, of Canberra, Australia; Terrance and wife, Robin, of Bulli, Australia; Bruce and wife, Debbie, of Campbelltown, Australia; and Warren and wife, Adriana, of Sydney, Australia.

Laws completed her undergraduate degree at the University of Sydney, Australia and graduate degrees at the McMaster University in Ontario, Canada. She joined the Department of Geography at Penn State in 1989, covering issues in urban social geography, social justice, gender, aging and homelessness in her teaching and research.

Laws was an adjunct faculty member of the Women's Studies Center and was a contributor to the Women in Science and Engineering Institute. She contributed to the Australia-New Zealand Studies Center and served on the advisory board for the Gerontology Center. She was also active in the community as a representative to the State College Borough Community Block Grant Committee. During this academic year, Laws was a visiting Fellow in the Department of Geography at the Australian Defense Force Academy in Canberra, Australia.

Contributions can be made to the Glenda Laws Fund for Undergraduate Education, Department of Geography, College of Earth and Mineral Sciences, The Dean's Office, 116 Dieke Building, University Park, Pa. 16802.

Professor emeritus, 83, established broadcast major option

Harold E. Nelson, professor emeritus of speech communication, died April 22 at the age of 83.

From Sept. 1, 1947, until his retirement July 1, 1978, he taught both graduate and undergraduate courses in broadcasting. In addition, he acted as adviser to many master's and doctoral degree candidates. He helped establish and served as faculty adviser to the student-operated FM radio station, WDFM, and was a member of the original committee that established the broadcast major option at Penn State.

He served on the governor's committee that surveyed the need for educational television in Pennsylvania; was a member of Phi Delta Kappa, Pi Kappa Delta and Rho Tau Sigma fraternities; was president and executive of the Pennsylvania Speech Association; executive secretary and member of the Speech Association of the Eastern States; member of the Association for Professional Broadcasting Education; the National Association of Educational Broadcasters; the American Association of University Professors; the Speech Association of America and the National Society of The Study of Communication.

He received his bachelor of arts degree in speech in 1935, his master of arts degree in speech in 1940 and his doctor of philosophy in speech and educational psychology in 1947, all from the State University of Iowa in Iowa City.

Former department head dies at 86

John D. Ridge, professor of economic geology and mineral economics and head of the Department of Mineral Economics, died April 22 at the age of 86.

Named an associate professor of economic geology at Penn State in 1947, Ridge served as assistant dean, professor and head of the department until 1964. He was appointed head of the department of mineral economics and professor of economic geology and mineral economics. He published eight textbooks in his field. After retiring in 1975, he was an adjunct professor, professor, acting chairman and visiting professor in the department of geology at the University of Florida.

He earned his bachelor's and master's degree in geology and a doctorate in economic geology from the University of Chicago. He was a Fellow of the Geological Society of America and Mineralogical Society of America. He was a member and served as chairman of the Society of Economic Geologists. Ridge helped form the International Association on the Genesis of Ore Deposits, for which he served as a regional councilor for North America, first vice president and president from 1976-1980.

Other University deaths

John E. Berkeimer, group leader, carpenter, The Hershey Medical Center, from Aug. 18, 1969, until his retirement Oct. 27, 1979; died June 8. He was 79.

Thomas J. Buggy, maintenance mechanic at The Hershey Medical Center, from Jan. 26, 1976, until his retirement Jan. 31, 1986; died May 17 at the age of 73.

Ruby Seitz Davis, former archival employee in the Penn State Room of Pattee Library during the 1950s and '60s, died June 28 at the age of 67. She was born Jan. 17, 1905 in Fort Dodge, Iowa. She was a 1926 graduate of Battle Creek College in Battle Creek, Mich., with a degree in health and physical education. She was the first dance instructor and one of the first swimming instructors in State College during the 1940s.

Carrie K. Grenoble, helper/general, Office of Business Services, from July 1, 1953, until retirement March 1, 1981; died June 18 at the age of 79.

Johannes von Gzdzawa Gschwendner, a native of Vienna, Austria, who came to the United States in 1961 and accepted a position as professor of physics at Penn State, died Feb. 12. He was 80.

Gschwendner, who received his doctorate at the University of Vienna, later taught physics, philosophy, astronomy and climatology at Dowling College from 1967 until the early 1980s and then at Suffolk Community College until he retired in 1992.

Phyllis R. Houser, who retired as a service attendant from Penn State in 1983, died Thursday, June 27. She was 75.

Born Nov. 9, 1920, she attended the Rebersburg Elementary School and graduated from the State College Area High School in 1940. She is survived by four children, three brothers, 10 grandchildren and three great grandchildren.

William O. Mitchell, county agricultural agent in Clearfield County in the College of Agricultural Sciences, died March 19 at the age of 95. Mitchell worked at Penn State from June 5, 1924, until his retirement Feb. 1, 1961.

John Sanderson Packard Jr., a faculty member in the Department of Nursing, died April 22. He was 53.

Sanderson received his doctor of philosophy degree from Penn State. He also served as an instructor at the University of Utah nursing department and in the educational administration department of the University of Oregon. A resident of Julian, he devoted the last eight years of his life to creating a locally available supply of organic food.

Marlene M. Soyvak, staff assistant VI at the Penn State DuBois Campus, from Nov. 1, 1977, until her death May 21. She was 57.

Charles 'Chub' G. Taylor, who worked in the University's housekeeping division, died Thursday, June 27, at the age of 80.

From February 1944 to June 1946, he served in the U.S. Army during World War II. He worked on the family farm and later worked at Warner Co. in Bellefonte and then returned to farming until he took a job with the University. He retired in 1982.

John W. Taylor, 63, of State College, died Wednesday, June 26.

Taylor, who began working for Penn State in 1958, worked for nearly seven years with the student loans and scholarship offices, moved on to the position of business manager for the Fayette Campus — a position he held for five years, served nine years as financial officer for the Capitol Campus, and then spent five years as director of finance for the Commonwealth Educational System, until his retirement in 1986.

Mary Ellen Waite, a food service worker from 1958 until her retirement Nov. 4, 1978, died May 26 at the age of 79.

After her retirement from the University, she worked part time as a hostess at the McDonald's at the Nittany Mall in State College. She is survived by a daughter, Cathy Kay Moses of Centre Hall, with whom she resided; a brother and two grandchildren.

Charles H. Wall, English instructor at the Penn State Fayette Campus, from June 10, 1987, until his death June 8. He was 63.

Businesses could learn from Amish partnership attitudes

By PAUL A. BLAUM
Public Information

Non-Amish entrepreneurs in rural areas could benefit from the partnership mentality of Amish business people who prosper despite their lack of formal education and previous market experience.

"Amish business owners obviously have certain advantages, especially their close-knit social system and their informal methods of on-the-job training and apprenticeships," Stephen M. Smith, associate professor of agricultural economics in the College of Agricultural Sciences, said.

"However, the cooperative partnership spirit found in Amish businesses could be duplicated by the outside rural community, with results beneficial to declining rural economies," Smith said.

Smith is co-author of *Amish Micro-Enterprises, Models for Rural Development: Final Report*, funded and published by the Center for Rural Pennsylvania, a legislative agency of the Pennsylvania General Assembly.

"It is true that Amish entrepreneurs enjoy certain advantages not enjoyed by non-Amish entrepreneurs," Smith said.

"For their Amish employees, they do not pay taxes for Social Security unemployment compensation or Medicaid for the very reason that the Amish decline to accept these government services. On the other hand, Amish do pay property taxes on their homes and businesses."

Amish non-farming businesses are generally similar to rural enterprises in several ways. One is that they are usually small and often supplement family income. Also, rural businesses across the board are usually started without commercial loans.

Whether Amish or non-Amish, such businesses use personal funds or family loans for about 80 percent of the needed start-up capital. Thus, valid compar-



Stephen M. Smith's research into Amish business practices shows that the cooperative spirit in the Amish community can be duplicated by the outside rural community with positive economic results.

Photo: Greg Grieco

isons can be made between Amish and non-Amish entrepreneurs, Smith, who also serves as director of Penn State's Center for Economic and Community Development, said.

"The Amish entrepreneurs do provide us with a potential model for a more collaborative local and regional economic development program," Smith said. "Communities and individuals—civic leaders, business people, government officials at all levels—would not see themselves in local competition but together would seek to use their area's resources to best advantage."

"An example would be a public-private partnership to promote market networks within the

region," Smith said. "This approach would allow businesses to know which companies are producing which goods and services in their region. It would also alert businesses to the needs of those companies, both in terms of raw materials and services. Consequently, buyers and producers who prefer to purchase locally become more aware of opportunities in the local market."

The result would be an established market base from which the businesses could expand. New products and services could be developed or altered to fit local demand, much as the Amish start their businesses by answering the needs of their particular community.

Under this system,

workshops could furnish information allowing the larger businesses and government agencies to acquire a local supplier. For them, this might be less expensive and more reliable, while facilitating more efficient inventory control. At the same time, the small local supplier could benefit from being able to sell to larger businesses or governments.

"These programs also should involve the local banks," Smith said. "This would break down information barriers between prospective borrowers and lenders. The bankers would gain greater knowledge of local businesses and their potentials, and could work with them to become more loan-worthy. With investment risk reduced on both sides, capital could be matched more easily with start-up opportunities."

Opportunities for vocational training and apprenticeships in rural areas have decreased in recent years, with the decline of traditional rural industries such as mining, lumbering and manufacturing.

A cooperative private business-state government effort could help strengthen vocational education in rural areas, not only for age youth, but also for people of all ages who need professional retraining, Smith said.

Study co-authors are Jill L. Findeis, associate professor of agricultural economics and senior research associate with the University's Population Research Institute; Donald B. Kraybill, professor of sociology and director of the Young Center of Anabaptist and Pietist Studies at Elizabethtown College; and Steven M. Nelt, doctoral candidate in history at the University of Notre Dame.

Help was also provided in the survey and analysis phase of the research by Conrad Kanagy, assistant professor of sociology at Elizabethtown College; and Michele L. Kozimor, doctoral candidate in sociology at Penn State.

Research



It's all in how you ask the question

Polls, supposedly the most accurate measure of public opinion, may have a built-in flaw skewing the answers that truly reflect the respondents' views.

"When people agree to an interview, they tend to take subtle cues from the interviewer and work within the framework set by the questions," Robert O. Herrmann, professor of agricultural economics in the College of Agricultural Sciences, said.

"For instance, if the interviewer asks, 'How concerned are you about food safety,' interviewees assume that the interviewer expects them to be concerned and they give answers which may overstate the degree of their concern."

Herrmann, along with Rex H. Warland, professor of rural sociology, and Arthur Sterngold, assistant professor at Lycoming College, are co-authors of the paper, *Do Surveys Overstate Public Concern?* published by the American Association for Public Opinion Research.

"A filter question should be asked first to gauge if they are concerned about the issue at hand," Warland said. "One way to put it would be, 'Do you feel this is a serious issue?' If interviewees do not believe something is a serious issue or do not feel they know enough to comment, they are less likely to express levels of concern which they do not have."

Solid liquid crystals created as 3D films

A material similar to the color-changing liquid in mood rings that were popular in the 1970s might someday provide ultra thin photographic lenses, optical filters, gas sensors and broad-range temperature sensors, according to researchers.

These devices will be made of the solid equivalent of cholesteric liquid crystals realized as thin films. The new materials have been named helioidal bianisotropic media.

"Normal liquid crystals are somewhere between a solid and a liquid," Akhlesh Lakhtakia, associate professor of engineering science and mechanics, said. "A helioidal bianisotropic medium has a rigid backbone sculptured by nano-engineering."

Lakhtakia and Russell Messier, professor of engineering science and mechanics, are exploring their idea of sculptured thin films for prosthetic and other biomedical applications.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Softball coach named

Robin Petriani has been named head softball coach.

As the associate head softball coach at Northwestern University this past season, Petriani spent the last eight years affiliated with the Wildcat program. Among her primary duties at Northwestern she was heading up recruiting. She was instrumental in assembling the 1997 class, regarded as one of the top two in the nation.

Before her stint at Northwestern, she spent four years at Brigham Young University, where she received her master's degree in physical education. After one season as the Cougars' assistant coach, she was promoted to the head coaching post.

A native of San Francisco, Petriani is a 1983 graduate of Utah State University with bachelor's degrees in political science and physical education.

Staff wins awards

Penn State Sports Information specialists Jeff Brewer, Mary Jo Haverbeck and Julie Reuvers have won national publication and district writing awards from the College Sports Information Directors of America.

Brewer's historical feature award recognizes his Centennial Signature for the Men's Basketball Guide. Brewer and Haverbeck collaborated on a profile of new men's basketball coach Jerry Dunn to win the district coach/administrator category.

Reuvers, a member of the Pacific-10 Conference public relations department this past year, had three conference media guides place among the top eight nationally. The Pac-10 Baseball/Softball guide was judged best cover in the nation and placed third overall. Reuvers' Pac-10 men's basketball guide ranked fifth, while her women's volleyball guide was judged eighth among all conference media guides.

Brewer's men's basketball guide was judged third best in the district.



Clowning around

Michael Karlovich juggles more than his class load. The senior biology student took some time to enjoy the summer weather on the Old Main lawn recently.

Photo: Greg Grieco

Campuses to offer joint degree program

Two Penn State campuses are cooperating to offer a degree program that responds to the changing world of biomedicine and the new demands those changes are making on scientists.

The College of Medicine at The Hershey Medical Center is collaborating with Penn State Harrisburg to offer a concurrent degree program that allows students to earn an MBA while working on their Ph.D. in pharmacology.

The dual program is the brainchild of Mel Billingsley, professor of pharmacology at Hershey, who saw a need in his field for students with business and administrative skills.

"Many companies can't afford the luxury of an administrative staff," Billingsley said. "Therefore, they need multi-trained people, scientists with fiscal planning and personnel management skills."

"As scientists move up the ranks in the hierarchy, they become more involved in people-related skills," Mel Blumberg, professor of management at Penn State Harrisburg and one of the architects of the dual program, said. "They find themselves managing labs rather than working in them."

The proposal has been approved by the faculty of both colleges, the Graduate School and the Board of Trustees.

The programs dovetail into a five-year schedule. The Ph.D. coursework is scheduled in the first two years, with lab research toward the end. As a student completes the Ph.D. coursework at Hershey, he or she begins taking an increased schedule of MBA courses at Penn State Harrisburg, just 10 miles away. Since the MBA courses are offered at night and on Saturdays, the student is free to pursue Ph.D. research during the day.

"This program really increases the level of interaction between the two campuses," Billingsley said. "It allows us to prepare students who are both excellent scientists and analytical, clear-headed business people."

PENN STATE INTERCOM

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Carpoolers

University van pool has immediate openings for riders/drivers for the Penns Valley area. Stops are Aaronsburg, Millheim, Spring Mills and Centre Hall. Work hours are 8 a.m.-5 p.m. Call Kathy at 865-5403 or e-mail at kam@cde.psu.edu

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INTERCOM

August 8, 1996

Volume 25, Number 37

Commencement set for Aug. 10

The University will hold its summer 1996 commencement ceremonies on Aug. 10 for a total of 2,565 students, including 1,305 baccalaureate, 740 graduate and 296 associate degree students at the University Park Campus.

Of the students graduating with advanced degrees at University Park, 538 will receive master's degrees and 202 will receive doctoral degrees. In addition to the degrees being awarded at University Park, 38 baccalaureate degrees and four master's degrees were earned at Penn State Erie, The Behrend College, and 104 baccalaureate degrees and 78 master's degrees were earned at Penn State Harrisburg.

The undergraduate and associate degree ceremony will be held at 10:30 a.m. in The Bryce Jordan Center, and the Graduate School ceremony will be held at 2 p.m. in Eisenhower Auditorium. President Graham B. Spanier will preside and confer degrees at the baccalaureate and associate degree program. John A. Brighton, executive vice president and provost, will preside and confer degrees at the Graduate School program.

The ceremonies will be the last attended by both David A. Shirley, senior vice president for research and graduate education since 1992, who will give the commencement address at the Graduate School ceremonies, and Nancy M. Cline, dean of University Libraries since 1988, who will give the commencement address at the undergraduate and associate degree ceremonies. Shirley is retiring at the end of the year, and Cline will become the Roy E. Larsen Librarian of Harvard College in September.

These are the first summer commencement ceremonies at which diplomas will not be distributed. Qualified graduates will receive their diplomas in the mail within one month after the ceremony.

The change is a result of the recent decision

See "Commencement" on page 3

Lion's rugged good looks restored



Faded but not forgotten

Catharine Hawks, a restoration expert, adds the last bit of fur to the ear of this 140-year-old mountain lion specimen. The cat, which was returned to the University in 1992 after being found in the basement of the Carnegie Museum in Pittsburgh, will be permanently displayed in Pattee Library on the University Park Campus.

Photo: Greg Grieco

By GARY CRAMER
Public Information

In the course of its 140-year afterlife, the "real" Nittany Lion has had both the metaphorical and literal stuffing knocked out of him. But last month, the conservator in charge of knocking the stuffing back into the remains made what was probably her last visit to the well-traveled cat.

Carefully adding some new fur to his ears and flanks with a skill that has been applied to preserving everything from butterflies to dinosaurs, conservator Catharine Hawks declared the once-bedraggled specimen "pretty high" as a challenge to restore. The restoration expert, who has also worked for The Smithsonian

Institute, said that "short of tearing him apart" for a complete internal overhaul, he is now in the best shape that can be expected.

Owned by Penn State, but forgotten for 40 years in the basement of the Carnegie Museum in Pittsburgh, the big cat was "found" in 1992. The lion has already gone to pieces—five of them in all—at least once since being shot in the head more than a century ago. Now, though a bit faded from his early days as a mounted specimen, the lion's return to a Central Pennsylvania that has not seen wild members of his kind since the 1870s seems to have brightened his eyes.

Is it the knowledge that this time, he is back for good in the home he probably never should have left in the

See "Big cat" on page 3

Inside



Centennial shots

State College Borough, home to the University Park Campus, celebrates 100 years of existence this year. Turn to page 2 for highlights of the Centennial parade.



Fierce beast

University officials unveiled this new design, known as the "Pride of Lions," which complements Penn State's other design trademarks. For the full story, turn to page 4.

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Town and gown celebrate State College centennial



Musical entertainment

The State College Municipal Band was one of several musical acts to perform on the HUB Lawn on the University Park Campus during the State College Centennial Celebration Aug. 2-4.

Photos: Andrea Hurley



Dignitaries everywhere

"Evan Pugh," Penn State's first president (played by Jerome K. Pasto, associate dean emeritus for resident education and professor emeritus of agricultural economics), right, is helped into a wagon by current President Graham B. Spanier as Dennis J. Murphy, professor of agricultural engineering, and wagon driver Bud Lentzer look on.



Good time

Cindy Adams and her daughter Erin enjoy a Creamery ice cream cone on the HUB Lawn during centennial festivities.

Search committee formed for dean of Agricultural Sciences

A search committee has been appointed to identify candidates for the position of dean of the College of Agricultural Sciences. Gregory L. Geoffroy, dean of the Eberly College of Science, is committee chair.

The dean of the College of Agricultural Sciences serves as principal academic leader and chief executive officer of the college and reports directly to the executive vice president and provost of the University. The dean is responsible for planning, budgeting, implementation, evaluation of programs of resident instruction, research and extension.

Candidates should have a demonstrated competence in a field of study commonly included in a college of agricultural sciences with credentials appropriate for appointment as professor in his or her discipline. The candidate should have a thorough familiarity with the philosophy and responsibilities of a large, research-oriented, land-grant institution. Prior experience in academic administration with responsibility for personnel, programs, and/or

resources and a breadth of understanding and creative imagination necessary to develop policy in keeping with the multiple missions of the college are required. In addition, a wide acquaintance with agriculture and awareness of the college's responsibilities to the agricultural and food industries, forestry and many allied constituencies in dealing with their economic, social and technical problems is required.

Nominations, applications and inquiries should be submitted to Dean Geoffroy, Chair of the Search Committee for the Dean of the College of Agricultural Sciences, The Pennsylvania State University, Box PSI, 201 Old Main, University Park, PA 16802. The search committee will review applications and nominations beginning Sept. 15, and will continue to receive them until the position is filled.

Other members of the committee are: Shoma R. Broussard, graduate student; Diane V. Brown, associate dean and affiliate assistant professor of agri-

cultural and extension education; Daniel R. Deaver, professor of reproductive physiology; Nina V. Fedoroff, Verne M. Willaman professor of life sciences, professor of biology and director of the Biotechnology Institute; David H. Fowler, county extension director and senior extension agent, Clarion County Cooperative Extension; Frederick H. Gaige, campus executive officer, Penn State Berks Campus; Charles A. Houpp, undergraduate student; Larry A. Nielsen, director of the School of Forest Resources and professor of natural resources; C. Channa Reddy, Distinguished Professor and interim head of the Department of Veterinary Sciences; Robert Secor, vice provost; Jack C. Shannon, professor of physiology, Obie Snider, member of the Board of Trustees and managing partner, Singing Brook Farms; Lorraine M. Sordillo-Gandy, associate professor of veterinary science; and C. Shannon Stokes, interim associate dean for international programs and professor of rural sociology.

Commencement

continued from page 1

sion to hold summer and fall commencement ceremonies at the University Park Campus immediately after the final exam period. Diplomas being awarded at summer and fall commencements will be mailed, rather than distributed at the ceremonies, because final graduation lists will not be completed by the time of the ceremonies.

The decision to hold summer and fall commencements immediately after the final exam period was made after wide consultation with faculty, students and staff at all locations.

Graduates, parents and friends planning to attend the ceremonies may park in lots adjacent to the Jordan Center for the undergraduate and associate degree ceremony at 10:30 a.m. and in the Eisenhower Parking Deck for the Graduate School ceremony at 2 p.m.

Obituaries

Ted L. Alleman, lecturer in administration of justice and sociology in the College of the Liberal Arts, from Feb. 1, 1989, until his death May 16. He was 51.

Francelia L. Bradley, nutrition adviser in the College of Agricultural Sciences, from Nov. 24, 1969, until her death July 2. She was 53.

Kenneth Floray Snyder, a group leader in security at the Applied Research Laboratory from 1959 to 1977, died Monday, June 10. He was 83.

He attended Centre Hall High School and later served in the Civilian Conservation Corps. He was inducted into the U.S. Army during World War II, where he served in the Philippines and was honorably discharged in 1946.

He served as mayor of Centre Hall, Pa., from 1975 to 1979, and was a member of the musical group the Keystone Melody Boys.

Taking care of business



Photo: Andrea Hurley



Photo: Greg Grieco

Winter storms' effects still felt by landscape

Jeff Dice, arborist with the Office of Physical Plant, has been busy trimming, treating and grooming trees on the University Park Campus. In addition to regular maintenance, OPP is still tending to trees and shrubs damaged by several successive storms that hit the central Pennsylvania region last winter. At last count, 144 trees had been lost to storms. OPP officials report the wet, humid season has also been a boon for the insect that carries Dutch elm disease. So far this year, eight American elms have been lost to the disease.

Big cat

continued from page 1

first place? Or is it just because those glass eyes have been polished and reset in their sockets?

Whatever the reason, all of the living parties connected to the lion's new look are excited, especially about plans to display him permanently in what could amount to a life-size diorama in Pattee Library on the University Park Campus. But before that happens, he will take up a temporary, less-detailed station in the library, beginning with a small ceremony that is likely to be held on Sept. 24.

"We view it as a Penn State symbol that also very much has an educational focus," Richard H. Yahner, the professor of wildlife conservation who found himself returning the lion to Penn State after his nearly 40-year sojourn in Pittsburgh. "We want to present it not just as our mascot, but also as a springboard for the discussion of conservation issues."

"Scientifically speaking, it's an absolute gold mine—the most complete specimen of an Eastern mountain lion that actually lived in Pennsylvania."

And you'll never look at the lion statue again and be as impressed by it now that the real thing is here.

Actually, the "real thing" has been

"Scientifically speaking, it's an absolute gold mine—the most complete specimen of an Eastern mountain lion that actually lived in Pennsylvania."

Richard H. Yahner
professor of wildlife conservation

here before—several times, in fact—and may well have been the root inspiration for the creation of the Nittany Lion mascot. His storied past deserves documentary treatment, and is getting it, at least in book form. The mounted lion earns a full chapter in an upcoming Penn State Press book, *The Nittany Lion: An Illustrated Tale* (1997). The

book covers all aspects of the Nittany Lion mascot and is under development by Jacqueline Esposito, assistant University archivist, and Steven Herb, head of the Education Library.

In brief, the "original" mounted lion's history goes something like this: He was hunted down with a dog pack and shot by Samuel E. Brush in Susquehanna County, in northeastern Pennsylvania, in 1856, just a year after the founding of the Farmers' High School which evolved into Penn State. Stuffed with tow, a coarse fiber, and mounted on a wood and metal frame, he became a kind of big teddy bear for Brush's grandchildren for a time before he became a Penn State as a display in Old Main. He later went on loan to the Chicago World's Fair before returning to campus. Subsequent storage in the basement of Watts Hall along with the remains of Coaly the mule, another Penn State legend, dropped him out of the public eye for many years.

In the 1950s, he again went on loan, this time to the Carnegie Museum in Pittsburgh, to form part of a display on endangered species (such "mountain" lions only remain wild in southern Florida). That display also spent a year in Harrisburg in the William Penn

Museum before going back to Pittsburgh for eventual mothballing. The lion was covered over, its "on loan" status essentially forgotten until four years ago when Yahner, a native Pittsburgher, was told of its existence by a Carnegie Museum official. Yahner visited the sorely abused specimen and arranged for its transportation back to lion country.

The full restoration, funded by class of '36 agricultural engineering alumnus Harvey Corson and his wife, Dorothy, of Muncy, Pa., has involved cosmetic eye and ear surgery, dental work, paint stripping, tail support and X-ray examinations. Replacements for some claws were fashioned from balsa wood, stripped Chinese saddle duck feathers serve as stand-ins for lost whiskers, quite a bit of the ears are now polyethylene, and whitetail deer fur masks spots where original lion fur thinned over time.

"Now it probably looks a lot like it did when it was in the last moments of its life, fighting against a pack of pursuing dogs," Yahner said. "This is the way these magnificent creatures should be remembered, as the fierce predators they really were and something this area will never see in the wild again."



Identify mark shield



Intercollegiate Athletics logo



University seal



Nittany Lion head

The many faces of Penn State

Newest additions to logo collection bring home the "Pride of Lions"

This lion means business. It's one whose face leaves absolutely no doubt that it can deliver the trademark Nittany Lion roar.

The University's newest series of logos feature an illustration of a proud and determined Nittany Lion accompanied by distinctive typefaces in various layouts to provide design options for licensees. In addition to the Nittany Lions' familiar blue and white, the logotypes offer silver as a possible accent color.

The additional marks, which will complement existing logos representing the University already in use, were introduced at a Beaver Stadium press conference Aug. 3.

The current family of logotypes includes the identity mark shield, the Intercollegiate Athletics logo, the University seal and the lion's head and full-bodied lion design. For identification purposes only, the new designs have been designated the "Pride of Lions."

Daniel Sieminski, director of finance and business and chair of the Penn State Licensing Committee, said the new logotypes were developed to give manufacturers and retailers the ability to creatively market additional Penn State products.

"We are attempting to respond to suggestions that we provide an identity program that is less formal than those presently available," Sieminski said. "Our intention wasn't to replace any of the existing graphic representations of Penn State but to supplement them in a fashion that might increase the appeal to the various publics our licensees serve."

"Since 1982, the licensing of Penn State's name and images has attracted \$8.1 million for academic and athletic scholarships."

Daniel Sieminski
director of finance and business
and chair of the
Penn State Licensing Committee

Every time you enter a store and buy a sweatshirt sporting the words "Penn State" or "Nittany Lions," you're helping financially needy Penn State students stay enrolled at the University. Every officially licensed Penn State item sold nationally and internationally sends 7.5 percent of its price tag back to the University and its students.

"The original intent of the licensing has been and remains funding academic and athletic scholarships for students," Sieminski said. "Since 1982, the licensing of Penn State's name and images has attracted \$8.1 million for academic and athletic scholarships. Of the \$8.1 million, \$1.9 million has been directed into endowed scholarship funds to maintain a stable source of funding in the future."

The program directs 86 percent of the revenue into scholarship funds, with the rest used for administrative costs.

Of the endowed funds, 65 percent has been earmarked for academic excellence scholarships so more Penn State students will continue to benefit from the licensing program.

Compared to many other universities, Penn State was a latecomer in the move to officially license its name and certain affiliated images. Created in 1982 alongside the first national football championship,

the program has grown tremendously, reaping more than \$2 million in 1994-95, the Rose Bowl Championship season.

"Certainly, the Penn State family of students, employees, alumni and supporters has made this licensing program wildly successful," Sieminski said. "And with our Big Ten membership, the recent opening of the Jordan Center and the continuing success of our athletic programs, including men's and women's basketball, we are optimistic that the program will continue to grow and support students at Penn State."

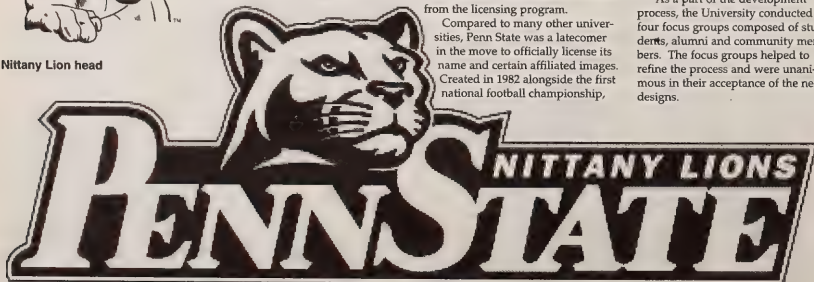
Use of Penn State marks on officially licensed merchandise is administered by The Collegiate Licensing Co., considered the premiere collegiate sports marketing and licensing representatives in the nation.

Based in Atlanta, Collegiate Licensing represents more than 150 colleges, universities, bowl games and athletic conferences nationwide. Vendors wishing to sell merchandise with the Penn State logo must obtain a license through CLC. Penn State ranked No. 4 in total sales among CLC clients during the year just concluded.

With assistance from Collegiate Licensing, Penn State engaged the New York design firm of Sean Michael Edwards to develop the new identity program.

Sean Michael Edwards has undertaken similar work for a number of universities including Florida, Maryland, North Carolina, Purdue, St. John's, Villanova and Virginia as well as several professional sports teams.

As a part of the development process, the University conducted four focus groups composed of students, alumni and community members. The focus groups helped to refine the process and were unanimous in their acceptance of the new designs.



The new Penn State "Pride of Lions"

ARL, IMRL promotions named

The following faculty from the Office of the Senior Vice President for Research and Graduate Education have been promoted for the 1996-97 fiscal year.

Applied Research Laboratory

TO SENIOR RESEARCH ASSOCIATE

Thomas G. Hughes
Jogender Singh
Douglas H. Werner
William C. Zierke

TO RESEARCH ENGINEER

Robert D. Jones
Louis A. Rubano

TO ASSOCIATE

RESEARCH ENGINEER

Charles W. Allen
Mark J. Bregar
James A. Condon
Bruce T. Einfalt

Richard D. Groff
Steven N. Harp
Mark F. Henrickson
Roy L. Hoffman
Clark A. Jones
Mark T. Keller
Perry G. Klein
Eric J. Little
John T. Pitterle
Mark A. Puzak
Timothy A. Reese
Ruth R. Snyder
Michael E. Thompson
Joseph P. Welz

Intercollegiate Materials Research Laboratory

TO SENIOR SCIENTIST

Thomas ShROUT

TO SENIOR RESEARCH ASSOCIATE

Ruyan Guo

TO SENIOR RESEARCH ASSISTANT

Paul Moses



In full bloom

Sunflowers grace the Department of Horticulture's trial gardens, located on Park Avenue on the University Park Campus. The gardens are open daily from dawn until dusk.

Photo: Andrea Hurley

Faculty/Staff Alerts

Children's Miracle Network

The 1996 Children's Miracle Network broadcast in June raised \$926,697 to help sick children and their families at Penn State University Children's Hospital in Hershey. Proceeds from the broadcast are used to enhance patient care. All money raised stays in the area to support the needs of children and families from the Susquehanna Valley.

The EAP helps with parenting

Juggling all of the responsibilities that go along with being a working parent can be exhausting and frustrating. The Penn State Employee Assistance Program (EAP) can provide information for coping with family/work issues. For a free, confidential appointment, Penn State faculty and staff can call 1-800-858-2778 (at The Hershey Medical Center, call 1-800-543-5080).

"New Instructor Orientation"

The "New Instructor Orientation" program, sponsored by the IDP Center for Excellence in Learning and Teaching, will again be offered Aug. 19 and 20 on the University Park Campus. Designed to provide an overview of basic issues that often concern new faculty and teaching assistants, the orientation is a combination of general sessions and smaller workshops.

General sessions to be offered include an "Introduction to the Penn State Classroom from 9-9:30 a.m. Monday, Aug. 19, in 101 Thomas Building (formerly the Classroom Building). The session will cover issues of diversity, student expectations, teacher expectations and teaching assistant rights and responsibilities. "The First Day of Class," a second session from 11 a.m. to noon the same day, will look at creating a first impression, alleviating anxiety and setting the tone for the semester.

From 1:30 to 4:30 p.m. Monday and 9 a.m. to

noon Tuesday, a workshop on "Planning a Class that Motivates Learning" will be held in 110 Thomas Building. This hands-on workshop will allow participants to plan a class session for the course they will be teaching. Topics will include goals and objectives, teaching methods, organization of content, student participation and writing test questions.

For more information about the New Instructor Orientation or to register, contact the IDP Center for Excellence in Learning and Teaching in 401 Grange Building on the University Park Campus, or call (814) 863-2599 or e-mail AXR1@PSU.EDU.

Bookstore discount

A 10 percent discount on merchandise available at the Penn State Bookstore is being extended to all full-time faculty and staff members. The discount, effective at all campus locations, is being given to acknowledge the support and patronage regional bookstore manager Barnes and Noble has received from its faculty and staff customers.

Categories excluded from this program include adopted textbooks, electronics, computer software, periodicals, rings, convenience items or merchandise that has already been discounted. Full-time faculty and staff showing valid identification will receive a discount on general trade and reference books, school and art supplies and all Penn State clothing and gifts. This offer is being made by the bookstores, in conjunction with the Office of Business Services.

Statistical Consulting Center

The Statistical Consulting Center, a team of faculty, staff and graduate students in the Department of Statistics with expertise in statistical methodology and applications, offers help and short-term advice for the University community's statistical needs.

Located in 323 Thomas Building (formerly the Classroom Building) on the University Park Cam-

pus), the center's team offers up to two free meetings for faculty and staff involved in research projects originating at Penn State. For graduate students, the center's team offers two free meetings for research directly related to a master's degree or Ph.D. to be conferred by Penn State.

To make an appointment, contact the center at (814) 863-0281. Anyone interested may also request a statistical consulting form. Request forms are also available over psuvm. Exit the menus, then type STATCONS on the psuvm command line.

Holiday hours

The Penn State Information and Directory Assistance Office hours for Labor Day, Sept. 2, are 8:30 a.m. to 4:30 p.m. Normal hours of 7:30 a.m. to 11 p.m. will resume Tuesday, Sept. 3.

Faculty needed for Elderhostel

Faculty members interested in developing and teaching Elderhostel courses at Penn State during the spring and summer of 1997 should contact Lisa Lyles, conference planner in the Conferences and Institutes Office, at (814) 863-1738 or by e-mail at lql@cde.psu.edu.

A national and international education program, Elderhostel is conducted by a network of more than 1,900 colleges and universities, museums, state and national parks, environmental education centers and other educational institutions in all 50 states and Canada and more than 52 countries overseas. Elderhostel programs offer short-term academic experiences for people over the age of 55.

Faculty have a variety of options for class structure. They may teach a single course or collaborate with others to present a multifaceted program. All arrangements for marketing, event planning, meals, classroom support, registration, content guidance and social programming will be made by Lyles.

LECTURES

Seminar takes aim at future of organizations

Key managerial challenges facing today's organizations, the kinds of solutions available and how organizations should position themselves for the changes expected in the next century, will be the focus of "Creating New Organizations for the Next Century," a one-day program set for Sept. 24 at The Penn State Scenic at University Park.

This seminar will deliver conceptual and practical strategies for creating the organization of the future and will include discussion of organizations: creating competitive advantage through relationships; network and cellular organizations; network principles and tools; and practical approaches to rapid change.

The sessions will be conducted by Charles Snow, Jessica Lipnack and Jeffrey Stamps.

Snow is a professor of business administration at Penn State and has conducted research and written extensively in the area of organizational development. His most recent book, *Fit Failure & the Hall of Fame*, was published

in November 1994. He also is conducting research on leading corporations in the U.S. and around the world related to organizational structures and human resource management practices appropriate for the workplace of the future.

Lipnack and Stamps are founders and principals of the Networking Institute Inc. Authors of four books, including *The Age of the Network*, they are known as "networking people." Their book *Virtual Teams—Working Across Space, Time and Organization*, will be published in spring 1997. They have consulted with a wide variety of organizations worldwide including AT&T, British Petroleum Exploration, CSC Index, DEC, Hyatt Hotels, KPMG/Peat Marwick, Shell Offshore and Steelcase.

The program is a continuing and distance education service of The Smeal College of Business Administration. For more information, call (800) PSU-TODAY or send e-mail to ConferenceInfo1@cde.psu.edu

Sessions review long-term impact of parental death

One in 20 Americans was a young child when his or her parent passed away, and even 40 or 50 years later, that early loss is still the defining event in that individual's life.

Maxine Harris, clinical psychologist and author of *The Loss That is Forever: The Lifelong Impact of the Early Death of a Mother or Father*, will share the results of her research into the emotional development of those who have lost parents at early ages. A public lecture is scheduled for Friday Sept. 27 and a daylong workshop is set for Saturday, Sept. 28, at The Penn State Scenic on the University Park Campus. Call Chris Dufour at (814) 863-5140 for information on times and program content.

Harris and her colleague Roger Falot, clinical psychologist and pastoral counselor, will discuss the life-

long impacts of loss on relationships, attitudes and fears, recovery themes and resources and survivors' stories gleaned from their research and counseling experiences. Audience participation will be encouraged.

The workshop has been approved by the American Association of Family and Consumer Sciences for 5.5 professional development units. Accreditation by the American Psychological Association (through The Penn State Consortium) and the Pennsylvania State Board of Social Work Examiners for these programs has been applied for and is pending approval. Full attendance at these programs is required to receive accreditation.

For registration information, please call (800) 778-8632, or visit the Web site at <http://www.cde.psu.edu/C&I/TheLoss/>

Final lecture on heritage of labor set

The final lecture in a series of talks honoring the heritage of labor and industry will be held from noon to 1 p.m. Wednesday, Aug. 14, at The Penn State Harrisburg Eastgate Center.

"The Industrialization of Harrisburg," presented by Gerald Eggert, professor emeritus of history, will

cap the four-lecture series that is co-sponsored by the Department of Labor and Industry at Penn State Harrisburg and the Pennsylvania Historical and Museum Commission.

The lecture is free, but registration is necessary. To register call the center at (717) 772-3590.



Adult learners

Diane Resides, left, a counselor with the Center for Adult Learner Services, discusses upcoming programs for adult learners with Elisha Nixon, project coordinator of the Multicultural Resource Center. The two took part in the recent Adult Student Fair at the Penn State Scenic. The next program offered by the center will be adult learner fall orientation from 6 to 8 p.m. Aug. 19 in 110 Bouckee Building on the University Park Campus. For more information call (814) 863-3887.

Photo: Andrea Hurler

Nominations sought for Mont Alto CEO

Candidates and nominations are being sought for the position of campus executive officer for the Penn State Mont Alto Campus. The position was left vacant when CEO Corinne Caldwell left to take a position at Temple University. The CEO is the chief administrative officer of the campus, responsible for administering all of its programs and for maintaining close relationships with the campus community, including outreach programs.

Candidates should have an earned doctorate, several years of experience in college or university teaching and substantial experience in academic administration.

The Search Committee for this post includes: Frank J. Kristine, chair and assistant professor of chemistry at the Mont Alto Campus; Helen E. Cafrey, director of commonwealth relations; Donald A. Gogniat, CEO, Penn State York; M. Eileen Graham, director of university relations, Mont Alto; Elizabeth T. Hill, assistant professor of economics, Mont Alto; Craig T. Houghton, instructor and coordinator of the Forest Technology Program at Mont Alto; Carol J. Kirkland, statistics instructor, Mont Alto; David C. Ruyak, student government president, Mont Alto; and Robert A. Secor, University vice provost.

Interested people should send their resume to: John Leathers, associate vice president, Commonwealth Educational System, 111 Old Main, Department CHMA, University Park, Pa. 16802.

Women and minorities are encouraged to apply.

Partings

Longstanding employees retire

Judith R. Bailey, staff assistant VI in the College of Earth and Mineral Sciences, from June 1, 1973, until June 30.

Ronald J. Barnett, residence hall utility worker, Housing and Food Services, from Sept. 20, 1976, to June 1.

Sue C. Decker, staff assistant V in the College of Engineering, from Oct. 17, 1977, to June 1.

Jessie B. Fowler, staff assistant VI in the College of Earth and Mineral Sciences, from Jan. 23, 1984, until June 30.

Lillian Garbrick retired from the bindery after 24 years with the University Libraries. For the first two years, she worked in the receiving room, and then switched to the bindery, where she worked first with books and subsequently with periodicals. She plans to travel and garden during her retirement.

William A. Jones, stock delivery clerk in the Office of Physical Plant, from Nov. 1, 1982, to May 25.

Linda Long has retired from the University Libraries after 30 years of service. Long joined the Libraries to work for the bindery, now known as bindery/physical processing.

Long is an Aaronsburg native and plans to remain in the area during her retirement.

Jane L. Marlowe, staff assistant VI in the Division of Development and Alumni Relations, from Nov. 16, 1983, until June 6.

Associate dean at Hershey retires

Dr. John A. Waldhausen, associate dean and director of University Physicians and professor of surgery at The Milton S. Hershey Medical Center, as well as the founding chair of the Department of Surgery, retired June 20.

Waldhausen, of Annville, had been the John W. Oswald professor and chair of the Department of Surgery and director of the Section of Surgical Sciences before he assumed his current role in mid-1993. In 1972-73, he served as interim provost and dean of the medical center, and in 1991 became founding director of the Penn State Cardiovascular Center.

Waldhausen will continue to serve as editor of the *Journal of Thoracic and Cardiovascular Surgery*, a position he has held since 1994.

He came to the College of Medicine in 1969 to establish the Department of Surgery and, over the years, developed a world-class surgical department that today includes more than 50 physicians, 80 residents and 200 support staff. Under his leadership, the department attained national and international recognition in a number of surgical specialties, including his own field of cardiothoracic surgery.

In his 42-year medical career,

Waldhausen has received numerous honors and awards, held many national offices and served on several editorial boards. He has written approximately 30 books and more than 200 professional articles.

He received his surgical training at The Johns Hopkins Hospital, the Hospital of the University of Pennsylvania and Indiana University Medical Center. He also served two years as clinical associate in the Heart, Lung and Blood Institute of the National Institutes of Health. Waldhausen received his M.D. degree from the St. Louis University School of Medicine.

Department of History head ends 24-year career

After 24 years as the head of the Department of Art History, **Evan Pugh professor Hellmut Hager** is stepping down to devote more time to his scholarly research. **Craig Zabel**, associate professor of art history, has been named interim department head.

A distinguished scholar of Italian Baroque architecture, Hager is recognized as the international authority on the Italian architect Carlo Fontana, and a leading authority on Gian Lorenzo Bernini. Through his five books and numerous articles—written in Italian, German, Spanish and English—he has

made significant contributions to the field of Baroque art and architectural history.

In 1992 Hager's research efforts were recognized with the publication of a two-volume *Festschrift* (festival of writings), dedicated to him, in which leading scholars of Europe and America in the field of Renaissance and Baroque architecture honored him with 34 essays. A noted lecturer in Europe, Hager was elected to membership in the prestigious *Accademia di San Luca* in Rome, an honor seldom bestowed on anyone not Italian. He is a graduate of

the Free University of Berlin and the University of Cologne, and received a doctorate from the University of Bonn.

Hager has served as the head of the Department of Art History since 1972 and is a Fellow of Penn State's Institute for the Arts and Humanistic Studies. He initiated the annual publication of *Papers in Art History* from The Pennsylvania State University, a publication which recently published its ninth volume. He will remain at Penn State and continue as a member of the art history faculty.

Department head in College of Ag Sciences returns to teaching

Dennis Buffington resigned as head of the Department of Agricultural and Biological Engineering. He will remain at the University as a professor of agricultural and biological engineering.

In his new role, Buffington will conduct education and research programs in agricultural systems management.

Buffington joined Penn State as

department head in 1985. Under his tenure, a new undergraduate curriculum in agricultural and biological engineering was approved by Penn State's Board of Trustees earlier this year. Buffington also oversaw a change in the department's name, from Agricultural Engineering to Agricultural and Biological Engineering, in 1990.

Buffington came to Penn State from the University of Florida at Gainesville, where he was professor of agricultural engineering and graduate coordinator for that department. He is known for his research in agricultural structures and computer modeling for agricultural applications and environmental modifications.

Five faculty selected as Fellows

Five University faculty members have been named Fellows to the Committee on Institutional Cooperation Academic Leadership Program. The CIC is the academic consortium of the Big Ten universities plus the University of Chicago. The CIC, through this program, is helping develop leadership and managerial skills of faculty on CIC campuses who have demonstrated exceptional ability and administrative promise. Those named, chosen because of their past contributions and for their potential to undertake key leadership responsibilities at Penn State, include:

Cheryl Achterberg, professor of

nutrition and director of the Nutrition Center, College of Health and Human Development; **Leann L. Birch**, professor and head of the Department of Human Development and Family Studies, College of Health and Human Development; **Ronald L. Filippelli**, associate dean for administration, planning and personnel and professor of labor studies, College of the Liberal Arts; **Louis F. Geschwindner**, professor of architectural engineering, College of Engineering; and **Mary Jane Irwin**, professor of computer science and engineering, College of Engineering.



Student housing

This 13-building complex going up at Penn College will house 320 students. The \$7.5 million project is expected to be completed and ready for students by spring 1997.

Photo: Courtesy of Penn College

The ARTS

AT PENN STATE

"Flight 800" memorial

The Community Arts Center in Williamsport, part of the Pennsylvania College of Technology, will hold a special memorial concert for the victims of TWA Flight 800 at 7:30 p.m. Wednesday, Aug. 14. The event will feature New Country singer/songwriter Steve Azar.

The event is a memorial tribute to the 21 members of the community that were killed in the disaster. The concert is free to the public; however, donations will be solicited for the memorial fund that has already been established in the victims' names.

Steve Azar is a Mississippi native with a hefty dose of Delta blues in his country soul. At 32, he has more than a decade of performing under his belt.

Tickets are available to the public at the Community Arts Center box office. For more information, please call (717) 326-2424 or (800) 432-9382.

Altoona host for heritage festival

Mark your calendars for the fourth annual Blair County African American Heritage Festival at Penn State's Altoona Campus on Saturday, Aug. 24.

The daylong festival of free music, crafts and culture celebrates African American culture in Blair County, and features music by Code Blue playing classical rhythm and blues and Umajo, playing traditional African music. Traditional foods also will be available throughout the day.

National Book Award winner David Bradley, author of *The Cheneysville Incident*, will read from his book and answer questions on the African American experience in rural areas and the Underground Railroad. Cheneysville is just south of Bedford, Pa.

The festival is part of the African American Project of Blair County and the Railroaders Memorial Museum, and is funded in part by Penn State's Equal Opportunity Planning Committee and the Altoona Campus Advisory Board.

Coordinators are Jerry Zolton, assistant professor of speech communications and American studies, and Paul Johnson and Will Lightner of Altoona. For more information, contact Zolton at (814) 632-7388.

Community Arts Center announces 1996-97 series

The Community Arts Center in Williamsport, a part of the Pennsylvania College of Technology, has lined up eight events for its fourth Performing Artist Series season.

The season begins Wednesday, Sept. 4 with Barry Manilow. The Broadway gem "Mame" will follow on Thursday, Nov. 21, starring former Miss America and TV actress Lee Meriwether. For the holidays, the Arts Center will host The Winter Solstice Concert, featuring New Age/jazz performers Truck & Patti, The Turtle Island String Quartet and pianist Phillip Aaberg on Wednesday, Dec. 4.

The new year starts with the return of New York City Opera performing Puccini's masterwork "La Bohème" on Wednesday, Jan. 15, as well as the 1993 Tony award-winning musical "The Kiss of the Spider Women" on Tuesday, Jan. 28. Gene Kelly fans will cheer the stage version of MGM classic "Singin' in the Rain" on Tuesday, Feb. 11, and rock opera buffs will rejoice in The Who's "TOMMY" on Wednesday, March 12.

An all-star cast ignites George Bernard Shaw's "Don Juan in Hell" on Wednesday, May 7. Slated to star are Ed Asner, Dianne Wiest, Rene Auberjonois and veteran character actor Harris Yulin.

All performances are scheduled for 7:30 p.m.

As a special add-on event, the Arts Center is including two performances of the family offering "The Magic Schoolbus," a live stage version of the very popular PBS television series, on Saturday, May 10, at 3:30 p.m. and 7 p.m.

For ticket or performance information, call (717) 326-2424 or (800) 432-9382.

Second time around for WWF at Jordan Center

The World Wrestling Federation returns to The Bryce Jordan Center, Tuesday, Sept. 24, at 7 p.m. for a TV shoot to be aired nationally on WWF's syndicated program. Tickets are on sale at the center, select Unimarts and Penn State campus outlets in Altoona, Erie, Hazleton and Reading.

Tickets are \$10, \$14 and \$18. Penn State students can receive a \$3 discount on up to four tickets in the \$10 and \$14 sections with a valid student ID. All seating is reserved.



Contemplating art

Art Heimen of State College, admires the sculpture "Explorer" by S. Lipton in the sculpture garden in the courtyard of the Palmer Museum of Art on the University Park Campus.

Photo: Greg Grieco

UNIVERSITY PARK CALENDAR

August 8 - August 18

SPECIAL EVENTS

Thursday, August 8
Music at Noon: Fisher Plaza. The Jazz All-Stars.

Friday, August 9
Ice Cream "Diversions," 7 p.m., Creamery patio. The Bavarian Stompers.

Saturday, August 10
Entomology "Catch the Bug," 10 a.m., 101 ASI. Feasting with the Frillaries.

SEMINARS

Summer Seminar, 3:30 p.m., Penn State Room, Nittany Lion Inn. James Beatty on "In Pursuit of Cosmic Rays."

CONFERENCES

Thursday, August 8
Penn State Turfgrass Field Days. Call (814) 863-3475.
Urban Teacher Training Workshop, Nittany Suites.
State 4-H Days, Findlay Commons.

Thursday, August 15

The Second Nutrition and Exercise Institute, The Penn State Scanticon. Through Aug. 17.

Friday, August 16
Case Management: Quality and Cost Containment in Health Care, The Penn State Scanticon.

Saturday, August 17
The Fifth EMED Scientific Meeting, The Nittany Lion Inn. Through Aug. 20.

EXHIBITS

Palmer Museum
"Centennial: State College Remembers, 1896-1996," through Aug. 25.
"Selections of Contemporary Art from the Pincus Collection," through Dec. 15.
"The Wood Engravings of Warren Mack," through Jan. 5, 1997.

Zoller Gallery
MFA Thesis Exhibition, Bradley Johnson-ceramics. Aug. 10 through 17.

Magazine lists Bryce Jordan Center as the top-grossing venue for its size

Performance magazine, in its July 19 edition, named The Bryce Jordan Center the top-grossing venue of its size for the first half of 1996 in the nation. *Performance* magazine, a national weekly publication for the concert industry, highlighted the Jordan Center for grossing more than \$3.3 million in ticket sales on its first 17 concert productions.

Top-selling concerts at the center include Rusty Root/Goo Goo Dolls/Badleys, Jan. 18; Alan Jack-

son/Wade Hayes, Feb. 17; Rod Stewart, Feb. 29; Tim McGraw/Faith Hill, March 31; Steve Miller Band, April 17; and the Eagles, June 20. Other top-selling events include WWF Wrestling, Jan. 27; Sesame Street Live, March 11 and 12; and the Royal Hanneford Circus, May 4 and 5. The sold-out Aug. 16 Reba McEntire concert was not included in *Performance's* mid-year chart because it only includes concerts performed as of June 30, 1996.

Technology transfer may aid Mideast peace

Partnership works to train UAE workers and improve the country's economy

By PAUL A. BLAUM
Public Information

Technology transfer in the right hands can do much to promote global peacemaking, particularly in sectors that remain politically volatile, such as the Middle East.

Stability in the Persian Gulf region — oil-rich and militarily strategic — is getting a boost from a Penn State educational program which gives technical training to future high school teachers from the United Arab Emirates (UAE).

Through this program, which began during the 1994-95 academic year, the UAE will be able to take firmer control of its economic destiny, according to Richard Walter, assistant professor of education.

"At the moment the UAE is vulnerable because 85 percent of its workers, including most of its teachers, are guest workers from other countries," Walter said. "This is the same scenario that occurred in Kuwait in 1990-91, on the eve of Desert Storm. As fears of an Iraqi attack mounted in Kuwait, its guest workers fled in droves, leaving the country economically paralyzed."

A German economic development organization did a study of the UAE economy and informed its Ministry of Commerce that the country could generate 50,000 jobs for nationals, provided that the job seekers had technical skills and could speak English as a second language.



Technology transfer

Education in electrical technology at Penn College is helping the United Arab Emirates take control of its economy.

"With that report in hand, the UAE government began taking vigorous steps to produce its own skilled labor force, instead of relying on guest workers," Walter said. "Its first move had to be to prepare

native secondary school teachers capable of teaching technical subjects after the American and German model."

The UAE approached Penn State for help in training teachers who were able to teach technical subjects in English. The UAE Ministry of Education would foot the bill for a five-year program.

"Under this program, the students spend their first year in an intensive English program at University Park," Walter said. "This allows them to develop the language skills required for admission to the technical training programs at Pennsylvania College of Technology in Williamsport."

They spend the second and third years of the program at Penn College, where they take language and mathematics courses along with courses in their special area of technical expertise. Technical skills taught at Penn College are precision machining, automotive work, electronic engineering, electrical engineering and business administration.

Once they receive their associate degree from Penn College, the UAE students return to University Park, where they enter the workforce education and development teacher education option for their fourth and fifth years of the program.

During the last semester of the program, the students return to Penn College to complete a micro-teaching experience in the technological laboratories they previously attended. Students emerge from the program with a bachelor's degree in hand.

At the moment, 26 UAE students attend Penn College, with another five students enrolled at University Park in the English as a Second Language Program. There are 14 other UAE students at other colleges and universities who plan to transfer to the Penn State program.



BOOK SHELF

Peter Kiefer, director of the Singing Lions and coordinator of "Fred Waring's America, A Special Collection of The Pennsylvania State University Libraries," has had his book *The Fred Waring Discography*, published by the Greenwood Publishing Group Inc.

Fred Waring and the Pennsylvanians entertained America for 69 years. They were pioneers in many aspects of the entertainment business: stage shows, radio, television, movies, concerts and recordings. Waring and his group made more than 1,000 commercial recordings starting in 1923 for the Victor Talking Machine Company and then continued with Decca Records, Capitol, Reprise and Mega labels. Kiefer's discography documents each one of the recordings as well as the transcriptions that the Pennsylvanians recorded for various program services.

Along with a detailed alphabetical listing of all song recordings, Kiefer's book also supplies a chronological list of each recording session and the songs recorded on that day.

list of arrangers and their arrangements; a complete album listing; and a listing of all known commercial transcription recordings. This is the only complete discography available on the subject.

Penny Kris-Etherton, distinguished professor of nutrition, is co-editor of *Nutrition in Women's Health* (Aspen Publishers). The book's senior editor is **Debra Krummel**, who received her Ph.D. in nutrition from Penn State in 1986.

The idea for the book came about two years ago when a surge of women's health issues made its way to the forefront of the health care discussion, spurred in part by the Women's Health Trial and the American Dietetic Association-sponsored Nutrition and Health Campaign for Women.

The book — geared primarily toward practitioners and students — covers women's nutritional needs throughout the life cycle, as well as nutritional issues for women with chronic disease, resources for women's nutrition research and menu

planning for women throughout the life cycle.

Some chapters relate to special women's-health concerns, such as eating disorders, diet and the menstrual cycle, nutrition for the female athlete, and nutritional concerns during pregnancy and lactation.

The second half of the book is devoted to preventative nutrition throughout the life cycle; it also details the nutritional needs of women with such health problems as obesity, cardiovascular disease, osteoporosis, diabetes and cancer. Another section deals with resources for those who want to do research on women's health, and the final chapter gives examples of menu planning to meet women's special nutritional needs.

J. Dan Marshall, associate professor of education, is co-author of *When Best Doesn't Equal Good Enough*, which recently earned the Outstanding Research and Publication Award from the American Society of Curriculum and Development.

The book assesses a particular college program that recruited top-notch high school seniors and offered them four years of tuition-free education in return for a commitment to teach two years in public schools. In the book, Marshall asserts that even the brightest and best-prepared graduates of initial teacher preparation programs will be frustrated if they teach in school cultures they dislike or find hostile.

Marshall concludes that new teachers fare best when they teach in schools with strong support systems, working with colleagues who approach their craft with vigor, enthusiasm and, most importantly, vision.

Henry A. Giroux, Waterbury Chair professor of education, is the author of *Fugitive Cultures: Race, Violence and Youth* published by Routledge.

Fugitive Cultures examines how youth are being increasingly subjected to racial stereotyping and violence in various realms of popular culture, especially children's culture. But rather than dismissing popular culture, Giroux addresses its political and pedagogical value.

Giroux examines the rise of a new kind of visual hyper-real violence directed at the contemporary youth market. Films, such as "Pulp Fiction" and "Kids," erase the notion of racial justice as a significant category and celebrate a glossy form of nihilism and despair as an aesthetic breakthrough in film, according to Giroux.

Bringing a range of issues together including talk radio, animated children's films, the portrayal of black and white violence, and the rise of the new nationalism, *Fugitive Cultures* provides insight into how the culture of violence and racial injustice is shaping the lives of our youth.

Giroux also is author of *Border Crossings and Disturbing Pleasures*, also published by Routledge.

Appointments

Changes bring center new name, new director

The Housing Research Center of Penn State has been renamed the Pennsylvania Housing Research Center.

Another change is that Jack H. Willenbrock, director of the HRC since its inception in 1988, has retired from Penn State after 27 years. He held the Bernard and Henrietta Hankin Chair of residential building construction and retires as professor emeritus of civil engineering.

Willenbrock is replaced by Eric Burnett, who is the new holder of the Bernard and Henrietta Hankin Chair of residential building construction and will direct the Pennsylvania Housing Research Center. The Bernard and Henrietta Hankin Chair was established in 1980.

Burnett comes to Penn State from the University of Waterloo, Ontario, one of the largest engineering schools in Canada. He has been associated with Waterloo as an educator and researcher for 25 years and, most recently, was director of the Building Engineering Group and a professor of civil engineering.

His research interests include system performance of roofing, window and wall systems, building repair and rehabilitation and product development.

Burnett received his master's degree and doctorate from the Imperial College, University of London. He completed his undergraduate work in South Africa.

The HRC is a research and technology center for residential housing and is the technology transfer arm of the Pennsylvania Building Association and the homebuilding industry. Research and education on all phases of housing are an integral part of the work of the center.

Mont Alto Campus names acting CEO

William Curley, Penn State Mont Alto Campus director of continuing education and business services, has been named acting campus executive officer. Curley will serve in this position while the campus conducts a nationwide CEO search to replace Corinne Caldwell, who left to take a position with Temple University at Ambler.

Curley joined the Mont Alto staff in 1990 as director of continuing education. In 1995, he took on additional duties as director of business services. Curley's prior experience includes serving as a continuing education area representative for Penn State, University Park Campus, and a conference coordinator for the Keller Conference Center.

Curley received his B.S. and master's of education degrees from Penn State. He is currently pursuing a doctorate in workforce education and development, also at Penn State. He has served as a member of Mont Alto's strategic planning and budgeting team, enrollment planning team, marketing team chair, CQI team and the administrative awards committee. He is a member of the Greater Chambersburg 2000 Partnership, the Chambersburg Rotary and the Chambersburg Chamber of Commerce.



William Curley

Arts and Architecture director of development earns promotion

Clay Edwards, director of development and alumni relations in the College of Arts and Architecture, has been promoted to the position of director of regional programs for the University's Division of Development and Alumni Relations. He will assume his new duties on Aug. 15.

Edwards will direct a staff of development professionals assigned to major cities where Penn State has concentrations of alumni. He also will be responsible for fundraising programs in Pennsylvania's Centre region.

Edwards joined Penn State in 1988 as the senior development officer in the College of Arts and Architecture, moving from the Shreveport Symphony. He was promoted to director of development in 1990 and in 1993 assumed all advancement responsibilities for the academic programs in the College of Arts and Architecture and University Arts Services, including the Center for the Performing Arts, the Palmer Museum of Art and Pennsylvania Centre Stage. His initial charge was to complete a \$6.1 million campaign to enlarge the Palmer Museum of Art.

Before joining Penn State, Edwards held posts at Davidson College, the University of Southwestern Louisiana, Western Illinois University and the Shreveport Symphony. He is a 1969 graduate of Davidson College in North Carolina.



Clay Edwards

Penn Stater magazine welcomes new editor

Tina M. Hay has been named editor of *The Penn Stater*, the University's bi-monthly alumni magazine.

The Penn Stater is the primary benefit of membership in the Penn State Alumni Association, which — at 136,000 members — is the nation's largest alumni association. In addition to serving as editor of the magazine, she will oversee other Alumni Association publications as well as the content of the World Wide Web site.

Hay had been communications assistant to the dean in the College of Health and Human Development (and its predecessor the College of Human Development) since 1983. She developed the magazine *Health and Human Development Research*, which earned a gold, silver and two bronze medals from the Council for the Advancement and Support of Education. She also revamped the college's alumni newsletter, oversaw the development of a family of promotional publications and helped create the college's Website.

She is a frequent contributor to *Currents*, the



Tina M. Hay

national professional magazine of CASE; her most recent feature covered editorial freedom and conflict in alumni magazines.

In 1990 she co-authored a book, *Recollections: Your Memory-a-Day Journal*, with former College of Education faculty member Bernard J. Badiali. The book, a guided journal to help older adults write about their lives, was published by Scott, Foresman and Co.

Hay also is known as the voice of Penn State women's basketball, having been public address announcer for the Lady Lions' home games for the past 11 years. In addition, she is coordinator of the Folk Show on WPSU, Penn State's regional public radio station, for which she received the 1994 Volunter Award.

Hay began her professional career as director of news operations for Eastern Broadcasting Corp. in State College, then continued part time as sports director while pursuing a degree as a returning adult student at Penn State. She graduated with highest distinction and with honors in management in 1983. She participated in the University Scholars Program, and her senior honors thesis on the National Coal Policy Project resulted in three articles in scholarly journals.

Two join Altoona Campus Department of University Relations

Two new staff members have signed on at the Penn State Altoona Campus in the Department of University Relations.

Marty Jo Irvin has been named publications/special events coordinator. In this position, she will be responsible for writing, editing and coordinating the production of all Penn State Altoona publications; serving as the campus' University editor representative; coordinating media relations; and planning and organizing special events and activities at the campus.

Before joining the Penn State Altoona staff, she was employed as a writer/editor in the Undergraduate Admissions Office at the University Park Campus, where she wrote and coordinated publications for prospective students and developed Penn State's admissions application on the Internet.

She was previously employed in the public relations and marketing department at Altoona Hospital.

Irvin is a graduate of Penn State with a degree in journalism and received her MBA from Saint Francis College, Loretto. She is a native of Altoona and currently resides in State College.

Christopher Meehan has been named alumni/development specialist. He will be responsible for coordinating all activities of the Altoona Campus Alumni Association; enhancing and carrying out an annual fund and major gift campaign; providing leadership for capital campaign volunteers; and coordinating all activities of the Campus Lion Ambassadors student organization.

Meehan was previously employed as director of student activities at Mount Aloysius College, where he coordinated all programming activities for the college; oversaw the Mount Aloysius Performing Arts Series; and advised the Student Representative Council.

He received an undergraduate degree in marketing and an MBA, both from Gannon University, Erie. He is a native of Punxsutawney.

Appointments

Director of academic affairs joins Beaver Campus

Gary B. Keefe has been named director of academic affairs at the Penn State Beaver Campus.

Before arriving at Penn State, he held the position of interim associate dean of the College of Engineering and Technology at the University of Nebraska-Lincoln. He also served as vice chairman of the Department of Civil Engineering and was an associate professor in civil engineering. He also has taught at West Virginia University.



Gary B. Keefe

Keefe holds a Ph.D. from WVU, where his major was environmental engineering and minors were chemistry and chemical engineering.

He is the recipient of the Glen L. Martin Best Paper Award, Civil Engineering Division, American Society for Engineering Education; the Charles B. Dudley Publication Award, ASTM; a West Virginia University Foundation Fellowship Grant for Outstanding Students; and the Phi Kappa Phi Honorary Society Award. He is a member of the Water Environment Federation, the American Society for Testing and Materials, and the American Society of Civil Engineers.

Adams County gains Cooperative Extension director

William Kleiner has been named county extension director for Penn State Cooperative Extension in Adams County. Kleiner succeeds Tom Piper, who retired after a 40-year career with Cooperative Extension.

Kleiner will be responsible for extension programs and personnel in Adams County. He also will continue his role as an extension agent with responsibilities for developing, implementing and evaluating educational programs for fruit producers in a multi-county area that includes Franklin, York and Adams counties.

Kleiner currently is assisting in the development of computer technology and Internet-based information for commercial fruit producers. He also has helped initiate pesticide container recycling and has established many orchard research and demonstration plots.

Kleiner joined Cooperative Extension in 1981 as an agriculture and 4-H agent in Lackawanna County. He served in a similar role in Clearfield County before coming to Adams County in May 1988.

He earned a bachelor's degree in horticulture and a master's degree in plant pathology, both from Penn State. He has received many professional awards, including the Ciba-Geigy Crop Production Award. Kleiner has coauthored several publications related to fruit production and helped produce Penn State's "The All-American Apple" video.

Kleiner is a graduate of the Pennsylvania Rural Leadership Program and continues to serve as a group facilitator. He also participated in the Volunteers in Overseas Cooperative Assistance (VOCA) project in Bzena, Poland, in 1993.

Doctor is assistant dean for clinical affairs at Hershey

Dr. Donald P. Lookingbill, professor of medicine and chief of dermatology, has been named assistant dean for clinical affairs at The Hershey Medical Center.

Lookingbill, of Hummelstown, came to Hershey in 1975 as assistant professor of medicine and chief of the Division of Dermatology. He was named associate professor in 1981 and professor in 1987. He completed a residency in dermatology at Harvard Medical School, where he was chief resident, and previously served as an intern and assistant resident in medicine at Strong Memorial Hospital, Rochester, N.Y.

He holds a bachelor's degree in chemistry from Lehigh University, where he was also a graduate student and teaching assistant in chemistry, and received his M.D. degree from the University of Pennsylvania.

Currently, Lookingbill serves on the editorial board of the *Archives of Dermatology*, the nominating committee of the Association of Professors of Dermatology, the National Scientific Council of the American Federation for Aging Research, the advisory panel of the Drug Information Division of the United States Pharmacopeia and the World Congress Fund Review Committee of the American Academy of Dermatology.

At the medical center, he is chairman of the Department of Medicine Finance Committee and is on the University Physicians Committee of Practice Site Medical Directors.



Donald P. Lookingbill

Liberal Arts appoints director of development

Bonnie S. Marshall has been appointed director of development for the College of the Liberal Arts.

She is responsible for planning, developing and implementing fund-raising programs and for directing related activities in support of the college's programs. The duties include identifying, cultivating and soliciting alumni and other potential donors.

She reports to the dean of the liberal arts and to Eloise Dunn Stuber, interim executive director of University development.

Marshall joined Penn State in 1995 as associate director of development for the College of Arts and Architecture. She had earlier worked for seven years as director of development for Centre Community Hospital in State College and as a development and public relations consultant to various regional clients. She also has experience as a finance coordinator and fund-raiser for the Central Pennsylvania Festival of the Arts, as a self-employed real estate investment manager and as a special education teacher.



Bonnie S. Marshall

She is a 1970 graduate of Penn State with a bachelor's degree in social welfare and a master's equivalency certificate in special education from Penn State (1973). She attended the Graduate Association of Healthcare Philanthropy's Institute of Philanthropy at the University of Wisconsin in 1991 and has been accredited by the National Society of Fund Raising Executives.

She is a member of the Centre County Youth Service Bureau Board, past president of the Central Pennsylvania Festival of the Arts, former United Way Campaign Chairman for Centre Community Hospital and a volunteer with the American Cancer Society Reach to Recovery project. For Penn State, she is an elected member and immediate past president of the Liberal Arts Alumni Society.

Director for alumni continuing education joins planning office

Susan McGough has been appointed director for alumni continuing education in the Continuing and Distance Education Office of Program Planning.

She brings more than 20 years of experience in the continuing education field to this new position. She and her team are working closely with the Penn State Alumni Association to expand the current core of programs targeted to the personal and professional education needs of alumni.

Most recently, McGough was senior director for program development in the Division of Continuing Education at the University of Virginia. From 1984 to 1993, she was university director for Continuing and Adult Education at the University of Dayton. She served as director for community services at the Firelands Campus of Bowling Green State University in Ohio from 1983 to 1984.

At Lorain County Community College in Elyria, Ohio, she was coordinator of evening services from 1976 to 1977 and chair of the Community Education Division from 1977 to 1983. Among her accomplishments, she secured the college's participation in national programs, including the Small Business Administration Resource Centers, American Association of Community and Junior Colleges Small Business Training Network and Kellogg Foundation's Building Better Boards community leadership initiative.

McGough began her career as director of admissions at Ohio Dominican College in Columbus, Ohio, in 1968.

She earned a bachelor of arts degree in history and English from Ohio Dominican College and a master of arts in American studies from the University of Hawaii.

She has served as a member of the board of directors of the Western Ohio chapter of the American Society for Training and Development, a member of the National University Continuing Education Association, an institutional representative for the National University Teleconference Network and president of the Ohio Continuing Education Association.



Susan McGough

Awards

NUCEA recognizes three C&DE projects

Three Continuing and Distance Education projects and publications received awards from the National University Continuing Education Association (NUCEA) in 1996.

■ **Playground Safety: An International Conference** received a Creative Programming Award from the NUCEA Division of Conferences and Institutes. It was the first conference to bring together play specialists, equipment manufacturers, designers, standard-setting authorities and government officials from around the world to discuss establishing an international playground safety standard. The College of Health and Human Development organized the conference with assistance from **Suzanne St. Pierre**, conference planner with C&DE's Conferences and Institutes.

■ The article "An Institutional Support Framework for Increasing Faculty Participation in Postsecondary Distance Education," written by **Stephen J. Wright**, director of distance education programs for the Department of Distance Education, and **Don Olcott Jr.**, manager of member services for the Western Interstate Commission for Higher Education, was awarded the Elizabeth Powell Award for independent study publications. The article was published in *The American Journal of Distance Education*.

■ The video "Sexual Harassment: A New Look at an Old Problem" received a Creative Programming Award in the long-term category from the NUCEA Division of Programs for Women. **Frank Wilson**, executive producer for instructional ser-

vices with Penn State Public Broadcasting, led the team that produced the video for the Office of the Vice Provost for Educational Equity. C&DE staff members wrote and produced the video, which was funded by the offices of the Vice Provost for Educational Equity and Affirmative Action.

Penn State Public Broadcasting staff members involved in the project include: **Gary Perdue**, senior producer/director; **Harry Zimble**, writer; **James Manfull**, associate producer; **Bill Wallace**, videographer; **Kerry Trout**, Rick Waterman, Jennifer Bortz and James Beecher, field audio; **Kent Klausner**, audio mix; **Jud Mantz**, **Jan Schaeffer** and **Bernie Samansky**, on-line editors; and **Jeff Hughes**, **Mary Ann Winkler** and **Jim Nachtman**, technical directors.

Doctor is a James IV Surgical Traveling Fellow

Dr. Thomas M. Krummel, the John W. Oswald professor and chair of surgery, director of surgical sciences and chief of pediatric surgery at The Hershey Medical Center, has been named a James IV Surgical Traveling Fellow.

He has returned from a trip that included Ireland, Scotland and England and in the fall will travel to Hong Kong, Australia, South Africa and India. In each place, Dr. Krummel meets with, teaches and lectures to fellow surgeons, scientists, research fellows, residents-in-training and students.

The James IV Association is a "society for the promotion of international understanding of surgical science and knowledge." It was founded in 1957 as a result of its concern over the lack of a transatlantic clearinghouse of information for evaluating surgical standards and practices, research and surgical literature. It was decided that a small, select society of surgical leaders on both sides of the Atlantic would help foster a sharing of professional information among surgeons.



Thomas M. Krummel

Two at Mont Alto cited for outstanding service

Two Penn State Mont Alto Campus staff members received awards for outstanding service to the campus.

Jan Morris, staff assistant for the Department of Continuing Education, received the Support Service Excellence Award. Morris, a member of the Mont Alto Campus staff for four years, resides in Chambersburg.

Housing and Food Service employee **Jody Fike** has worked at Mont Alto Campus since 1989. Fike, who received the Outstanding Service to the Campus Award, resides in Fayetteville.

Candidates are nominated each year by their colleagues for either the Outstanding Service to the Campus Award or the Support Service Excellence Award.

Private Giving

Hall of fame gets \$50,000

State College attorney **John Miller Jr.** and his two children, **John III** and **Jayne**, have pledged \$50,000 to Penn State's Hall of Fame for the baseball display area.

The Millers join a group of former Penn State student-athletes in making their donation to the Hall of Fame, which is being funded entirely with private gifts. No public revenues, University funds, tuition money or student fees will pay for construction.

The Miller family also has supported The Bryce Jordan Center and established several scholarships — the Miller Minority Journalism Scholarship, the Miller Scholarship in Business Administration for pre-law students and the Miller Baseball Scholarship.

A founding partner of the law firm Miller, Kistler, Campbell, Miller & Williams, John Miller Jr. received his bachelor's degree in arts and letters in 1941 and was a catcher for Penn State's baseball team. He later earned a law degree from Dickinson School of Law. He was regional co-chair of the Centre County major gift committee during The Campaign for Penn State in the late 1980s.

A partner in the law firm his father founded, John Miller III also played baseball. He received a bachelor's degree from Indiana University of Pennsylvania in 1970 and a law degree from Duquesne University in 1973.

Jayne Miller graduated from Penn State in 1976 with a degree in journalism. A senior investigative reporter for WBAL television in Baltimore, she has served the University as a member of the Alumni Council, a Communications Constituent Society board member and as an officer with the Penn State Club of Greater Baltimore.

In 1993, she was named an Alumni Fellow, one of the highest honors a college can bestow.

Alumnus donates \$1 million to Erie

Penn State Erie, The Behrend College, has received a \$1 million gift from the Jim and Gerda Benson Family Foundation, an endowment fund established within the Erie Community Foundation. **James O. Benson**, a founder and chairman of the manufacturing conglomerate PHB Inc., is an adviser to the endowment. It is the second time the college has received a million dollar gift from an alumnus.

"I have been very fortunate," said Benson, who received a degree from Penn State-Behrend in drafting and design technology in 1957. "I think it's important to give back to my community in order to allow others to fulfill their dreams."

Benson made his gift in the hopes of enhancing the college's commitment to working with area manufacturers.

The college will name the fourth and final building in its \$6 million engineering complex the **James O. Benson Building** in his honor.

PHB Inc. has more than 1,000 employees at three facilities in Erie County, recording annual sales in excess of \$80 million. Today the com-



James O. Benson

pany remains a full-service national and international supplier of products in the die casting, machining, tooling and molding industries, providing products and services to a wide variety of industries from automotive and aerospace to electronics and entertainment.

He served on the board of directors of both the United Way of Erie County and the Manufacturers' Association of Northwestern Pennsylvania, and held membership in the Elk Valley Rotary.

In 1995, Benson received the Penn State Alumni Fellow Award from the Penn State Alumni Association.

Benson and his wife, **Gerda**, live in Jupiter Island, Fla., where he was recently named chairman of the board and CEO of Fuelbesters International, a manufacturer of environmentally safe fire fighting material. With corporate offices in Atlanta, Ga., and Palm Beach, Fla., Fuelbesters International currently has 25 sales organizations throughout Asia and Europe, and 30 in the United States.

Penn State-Behrend will officially dedicate the **James O. Benson Building** and the engineering complex in a ceremony on Friday, Sept. 20.

Saving a piece of today



College buries time capsule

James Treadway and Joe DiGregorio pack the College of Engineering's time capsule. The capsule, right, was filled with approximately 500 items including engineering texts, calculators, computer software, centennial information from the college and other items to represent the state of engineering education in 1996.

Design and construction of the time capsule was an optional student project in Byung-Lee's composite materials manufacturing course.

The capsule was buried in Foundry Park on the University Park Campus and is marked with a plaque engraved with information about the capsule. The capsule is to be opened in 100 years on the college's 200th birthday.

Photos: Courtesy of the College of Engineering



Promotions

Staff

Phoebe Knepley, library assistant II at Penn State Great Valley Campus.

Mary Landis, area representative II at Penn State Allentown Campus.

Sherri Letterman, senior systems analyst in Division of Development and Alumni Relations.

Maureen Manning, outpatient practice coordinator at The Hershey Medical Center.

Kathleen Martin, staff assistant VI at The Hershey Medical Center.

Charlene F. Myers, staff assistant VII in Division of Development and Alumni Relations.

Michelle Mullen, LPN/MEDS at The Hershey Medical Center.

Kathryn Plank, associate director, Instructional Development Program, in Undergraduate Education.

Sandra Podgurski, staff assistant V in Student Affairs.

Diana Ricotta, area representative II at Penn State DuBois Campus.

Constance Ridge, pediatric oncology program aide at The Hershey Medical Center.

Gregory Ritchey, manager, Administrative Computing, in Computer and Information Systems, Telecommunications.

Patrick Scholl, director, Marketing and Planning Alumni Association, in Division of Development and Alumni Relations.

Lois Seitz, computer support specialist in College of the Liberal Arts.

Audrey Smith, senior research technologist in College of Agricultural Sciences.

Marilynne Stout, senior instructional designer in Computer and Information Systems, Center for Academic Computing.

Steven Strickler, systems programmer in Computer and Information Systems, Administrative Systems.

Stephanie Swartz, staff assistant VI at The Hershey Medical Center.

John Wallace, supervisor, Water Tunnel Model Shop, in Applied Research Laboratory.

Julie White, administrative assistant I in College of the Liberal Arts.

Delores Wiant, library assistant II at Penn State Great Valley Campus.

Technical Service

Keith Grenoble, automotive technician in Office of Physical Plant.

Lloyd Loose, power plant worker in Office of Physical Plant.

Linda Odland, helper, general, in Business Services.

Gloria Sigel, helper, general, in Business Services.

Robert D. Smith, maintenance worker, Utility, at The Bryce Jordan Center.

James Stem, maintenance worker, Utilities Piping, in Office of Physical Plant.

Sabrina Welker, helper, general, in Business Services.

News in Brief

Participants needed for nutrition study

Penny Kris-Etherton, professor of nutrition, is conducting a feeding study to determine the effect of liquid diets compared to whole food diets on blood cholesterol levels. The study begins on Sept. 23 and continues until March 6. To be eligible for the study, you must be:

- between 20 and 65 years of age;
- not taking any prescription medication;
- not pregnant or lactating;
- able to eat a wide variety of foods;
- willing to be on a liquid formula diet for two, three-week periods;
- able to come to the center (on campus) for two meals a day;
- able to supply blood samples.

Participants will be provided with all food during the study and will have their blood cholesterol level determined. In addition, participants will receive \$200 at the end of the study. For more information, please call 863-3168.

Libraries announce intercession hours

University Libraries on the University Park Campus will follow the following schedule during Intercession Aug. 11 through 20:

Pattee Library, Architecture Library, Earth and Mineral Sciences Library, Education Library, Engineering Library, Mathematics Library, and Physical Sciences Library.

- Sunday, Aug. 11: Closed
- Monday, Aug. 12 through Friday, Aug. 16: 8 a.m. to 5 p.m.
- Saturday, Aug. 17 and Sunday, Aug. 18: 1 to 5 p.m.
- Monday, Aug. 19 and Tuesday, Aug. 20: 8 a.m. to 10 p.m.

Historical Collections and Labor Archives, Interlibrary Loan, University Archives/Penn State Room, Pattee Copy Center, and the Rare Books Room will keep regular semester hours during this time.

MUSIC LISTENING ROOM

- Sunday, Aug. 11: Closed
- Monday, Aug. 12 through Friday, Aug. 16: 1 to 5 p.m.
- Saturday, Aug. 17 and Sunday, Aug. 18: Closed
- Monday, Aug. 19 and Tuesday, Aug. 20: 1 to 5 p.m.

Fall semester hours will begin Wednesday, Aug. 21. **Pollock Library** will be closed from Aug. 11 through 20.

For more information, call (814) 865-3063, type **HELP HOURS** when using the Library Information Access System (LIAS), or visit the Libraries' home page at <http://www.libraries.psu.edu>.

Penn Staters

At the invitation of Teikyo University and Tsukuba University, Japan, **Gerhard R. Barsch**, professor emeritus of physics, presented seminar and colloquium talks on "Soliton Models of Martensitic Interfaces" and "Statics and Dynamics of Martensite Interfaces."

Beverly Cigler, professor of public policy and administration at Penn State Harrisburg, has been selected as an associate member of the National Academy of Public Administration for a three-year term.

NAPA is an independent, nonprofit association founded in 1967 and chartered by Congress in 1984. It provides expertise on practical matters of governance at all levels and maintains standing panels on executive organization and management, public service, the federal system and international affairs.

Stanley Curtis, professor of animal sciences, was recognized as a distinguished agricultural alumna by the Purdue University School of Agriculture.

Hector Flores, professor of plant pathology, presented an invited lecture titled "Radical Biochemistry: Root-Specific Metabolism and its Regulation" at the Second International Symposium on the Biology of Root Formation and Development in Jerusalem.

Lonnie Golden, assistant professor of economics at the Penn State Delaware County Campus, recently presented a paper titled "Worktime and Numerical Flexibility in U.S. Manufacturing: Emerging Dynamic Relationships and Their Likely Causes" at the Conference on Changes in Working Time in Canada and the United States, Ottawa, Ontario, Canada.

Charles Hughes, associate professor of education, is the 1996 recipient of the Gordon R. Alley Partnership Award from the Kansas University Institute for Research in Learning Disabilities. This award is presented annually to a person whose efforts have had a significant and lasting impact on the work of the center, and who has collaborated with other professionals.

Mary Jane Irwin, professor of computer science, has been elected vice president of ACM, the Association for Computing Machinery—an educational and scientific society of computer professionals. Irwin, who has held various leadership positions within the organization, will serve a two-year term.

W. Larry Kenney, professor of applied physiology at Noll Physiological Research Center, was the keynote speaker at the Gatorade Sports Science Institute Conference III: International Course on the Science of Sport, in Caracas, Venezuela. Kenney, who is a

faculty member in the Department of Kinesiology, spoke on thermoregulation in the active sports-woman.

Roland Leach, professor of poultry science, presented a seminar on "In Vitro vs. In Vivo: Age-Old Question Revisited" at the Volcani Institute in Bet Dagan, Israel. He also attended the 10th International Workshop on Calcified Tissues at Hebrew University in Jerusalem, where he presented a paper titled "Epiphyseal Growth Plate Chondrocytes Express Basic Fibroblast Growth Factor, An Essential Factor for Chondrocyte Proliferation."

Digby D. Macdonald, professor of materials science and engineering and director of the Center for Advanced Materials, has been elected a foreign Fellow of the Royal Society of Canada by the members of the Academy of Science. He is one of two foreign Fellows elected this year on the basis of his distinguished achievements in science.

Distance Education: A Systems View, co-authored by **Michael Moore**, director of the American Center for the Study of Distance Education, has been awarded the Charles Wedemeyer Award by the National University Continuing Education Association.

Bonnie Ortiz, affirmative action officer, has been elected to serve a two-year term as chairwoman of the 15-member Affirmative Action Panel for the Committee on Institutional Cooperation—the academic consortium of the members of the Big Ten athletic conference and the University of Chicago. The panel is a long-standing advisory board to the presidents of member CIC institutions and shares information and views on affirmative action issues affecting higher education.

Jorge Pullin, assistant professor of physics and a researcher in the Center for Gravitational Physics and Geometry, presented an invited plenary talk titled "Is There a Connection Between Knot Theory and the Dynamics of Quantum General Relativity?" during a recent visit to Uruguay.

Calyanpudi R. Rao, holder of the Eberly Family Chair in statistics and director of the Center for Multivariate Analysis, recently presented an invited talk at the Fourth International Workshop on Matrix Methods for Statistics held in Montreal, Canada. The talk was titled "Some New Ways of Dealing with Multicollinearity in a Regression Problem."

Dushy Sathianathan, assistant professor of engineering design and graphics, is the recipient of the 1996 Dow Outstanding New Faculty Award for the Middle-Atlantic Section of the American Society of Engineering Education (ASEE).

Each year ASEE selects one member from each of its 12 geographic regions to receive the award, which recognizes the achievements and contributions of a young engineering educator.

Barbara Shaw, associate professor of engineering science and mechanics, has received the first 1996 H.H. Uhlig Award at CORROSION/96, the National Association of Corrosion Engineers' annual conference and exhibition. The award, presented to a young professor who has engaged students through "outstanding and innovative teaching in corrosion," was presented to Shaw to honor her cutting-edge instruction in the technology of lightweight, corrosion-resistant material.

Grace Stanford, assistant professor of education at the Penn State Delaware County Campus, has been named an urban Fellow at the Mid-Atlantic Laboratory for Student Success at Temple University for the 1996-97 academic year. She will be working to find solutions to the complex, multifaceted problems facing educators in urban areas.

Girija Subramaniam, assistant professor of chemistry at the Penn State Hazleton Campus, has been selected to participate in the National Aeronautics and Space Administration (NASA)/University Joint Venture Program (JOVE) to undertake research with NASA beginning this summer. She will collaborate with Seth R. Marder of the Jet Propulsion Laboratory in Pasadena, Calif.

JOVE is a NASA-sponsored research program designed to build research capabilities at U.S. institutions of higher education which have had little or no involvement in the U.S. space program.

S. Shyam Sundar, assistant professor in the College of Communications, won a Top Three Faculty Paper award in the Communication Technology & Policy Division of the Association for Education in Journalism and Mass Communication (AEJMC). He will present his paper, "Do Quotes Affect Perception of Online News Stories?" at the August 1996 AEJMC conference.

Patrick T. Terenzini, senior scientist in the Center for the Study of Higher Education, is an associate professor of education and policy studies; **Leonard Springer**, a recent Ph.D. recipient in the College of Education's graduate program in higher education; and **Patricia M. Yeager**, doctoral student in higher education, received the 1995 Forum Best Paper Award from the Association for Institutional Research. The paper, "First-Generation College Students: Characteristics, Experiences and Cognitive Development," was co-authored with **Ernest T. Pascarella** and **Amaury Nora**, both of the University of Illinois-Chicago. The paper was one of 68 considered for the award.

25-year Awards



Donald Leslie



David P. Orbin



John Porta



Celia M. Cavalier



John H. Dossett



Joan Wengert

Observing 25 years of service at the University are, from left, Donald Leslie, associate professor of landscape architecture and associate dean for undergraduate studies, College of Arts and Architecture; David P. Orbin, assistant professor of biology and acting CEO at the Penn State Hazleton Campus; John Porta, associate director of accounting operations, Corporate Controller's Office; and Celia M. Cavalier, section supervisor, Chemistry Laboratory of the Clinical Laboratory; Dr. John H. Dossett, professor of pediatrics and chief of the Division of Pediatric Infectious Diseases; and Joan Wengert, staff assistant VI in pediatric genetics, all at The Hershey Medical Center.

Reinforcing ethics code is key to corporate implementation

By GARY W. CRAMER
Public Information

While corporate ethics codes rank high as image-enhancers among managers, it still may take multiple reminders about the importance of the codes before the real message gets across.

Findings from a survey of 407 corporate financial managers suggest that they take the codes more seriously when sent regular written reminders and requested to acknowledge having copies.

The top-level financial managers were interviewed by the Gallup Organization, on behalf of the Center for the Study of Business and Public Issues (CSBPI) and the Financial Executives Research Foundation, about the usefulness of their firms' ethics governance programs to their decision-making. The firms ranged in size from very small to large enough to be in the Fortune 1000. All told, 74 percent had already formally adopted some type of code of conduct.

"Some executives might fear that ongoing reminders about ethics codes risk belaboring the point," Philip L. Cochran, associate professor of business administration and director of CSBPI, a research unit of The Smel College of Business Administration, said. "But instead of simply tuning out the message, managers in such circumstances tended to



Philip L. Cochran has done research on business ethics. He found that reminding managers about their corporations' ethics codes increases the attention paid to those codes.

Photo: Greg Crecio

consider the codes more meaningful to their own work than managers who didn't get regular reminders."

Training in the use of a code for top-, mid-, and operative-level employees and the existence of formal rewards for adhering to the code also made managers take stronger notice.

Furthermore, incorporating code compliance into performance reviews and establishing formal punishments for breaking it bolstered the managers' opinions of code usefulness, but to somewhat lesser degrees than the other practices.

Co-authors with

Cochran on the project were John M. (Jack) Stevens, professor of management and organization in The Smel College, and Gary R. Weaver, assistant professor of management at the University of Delaware.

"If corporations don't just trot their ethics codes out for show once in a while, but really take compliance seriously, you can expect the codes to be more meaningful to managers," Weaver said.

"The lesson is to not let employees bury the code in a desk drawer or 'circular file' it. Checking their compliance in several different ways is positively related to

how helpful the codes are perceived in managerial functions and decisions."

However, the researchers note that a code is no panacea for organizational ethics problems and that creating one "after the fact" may have little or no effect within some firms.

"Firms already facing public pressure to 'shape up' because of perceived unethical actions might find that establishing codes and ethics offices places the monitoring function in an adversarial, almost police-like role that employees will resent or ignore," Cochran said.

Research



Number
theory
counts

Basic research is supposed to be like caviar: You get what you pay for. But that doesn't mean there aren't bargains.

George Andrews, the Evan Pugh professor of mathematics and department chair, thinks that basic research in his field, number theory, and especially partitions, is just such a gift-ed bargain.

A partition is an elementary idea in number theory. Partitioning a number merely means breaking it up into a sum. For instance, 5 can be partitioned in seven ways: 5, 4+1, 3+2, 3+1+1, 2+2+1, 2+1+1+1, and 1+1+1+1+1. This simple concept has developed into a sophisticated and deep branch of number theory.

Andrews outlined how Rodney Baxter, an Australian physicist, coupled number theory and physics to produce an exact mathematical description of the behavior of liquid helium on a sheet of graphite. This union is even more amazing when one considers that number theory is sometimes viewed as applicationless, pure mathematics, while liquid helium is one of the most studied substances in the world, Andrews said.

Baxter's work initiated extensive research in statistical mechanics (the statistical study of atomic phenomena) where the theory of partitions plays a central role. Such theoretical studies are helpful in understanding chemical and physical interactions, Andrews, who collaborated with Baxter on follow-up research, said. As a direct consequence of their effort, mathematicians learned new facts about the theory of partitions, increasing the odds the theory would be used in other scientific disciplines.

"I'm surprised each time that questions in other fields end up related to partitions," Andrews said. "As a number theorist, it's stimulating, when partitions can be used as a tool of statistical or mathematical analysis to help another scientific field."

Andrews said pure math research is often applied in other disciplines. He points to non-Euclidean geometry, thought to have no use until Einstein applied it to his theory of relativity.

"Basic research in mathematics is important and not terribly expensive," he said. "Often, all you need is pencil and paper or at most a small computer."

Personality tests may nix self-managed neurotics

In the rush to establish self-management work groups, a researcher says personality tests can help determine who may fit in and who probably won't.

Findings from a study of 126 workers making a transition to self-management, a corporate trend driven in part by dwindling middle management, suggest that employees who are achievement oriented, outgoing, energetic and conscientious tend to feel

most prepared for self-management. Lead author Peg Thoms, assistant professor of management at Penn State Erie, The Behrend College, warns that organizations that lack people high in such personality traits may have difficulty successfully converting to the new structure.

"Asking employees to set their own goals and organize their own day-to-day activities without managerial oversight — perhaps

for the first time in their careers — can be a sink-or-swim experience," Thoms said. "In worst case situations with unprepared people, it's sort of like giving Homer Simpson the keys to the nuclear power plant."

Thoms conducted the research with Keirsten S. Moore, an assistant professor with Capital University, Columbus, Ohio, and Kimberly S. Scott, a human resources management consultant with Hewitt Associ-

ates, Chicago, Ill.

One question that requires further research is the extent to which an employee's self-confidence for participating in self-managed work groups can be increased through training, Thoms said.

"But at any rate, as an increasing number of organizations implement self-managed work groups, the impact of personality and self-confidence should be considered," she said.

■ Ag Progress Days

Annual extravaganza celebrates Ag Sciences

Visitors can take a tractor out for a spin, participate in a "Jeopardy"-style quiz show or get a hands-on look at insects at Ag Progress Days, sponsored by the College of Agricultural Sciences, Aug. 13-15.

This year's theme, "Penn State Ag Sciences ... We're More Than You Think!" focuses on Pennsylvania's food system. The event is held at the University's Russell E. Larson Agricultural Research Center at Rock Springs, near State College.

President Graham B. Spanier will address a luncheon crowd Wednesday, Aug. 14, to discuss his vision for organizational changes in Penn State Cooperative Extension. The speech will be broadcast via satellite from 3 to 3:30 p.m. that day. Satellite coordinates are available from Ron Matason at (814) 865-6309.

In addition, several new exhibits will highlight various aspects of the state's food system, from Pennsylvania's wide array of marketable crops to the diverse number of food processing companies making marketable products from those commodities. Pennsylvania is the largest food processing state in the northeast United States.

At the College Exhibits Building, visitors can take a self-guided interactive tour that illustrates how a raw commodity, such as a potato, can be harvested, processed and made into a finished product, such as a potato chip.

Visitors to Ag Progress Days can get a slice of entertainment and information by participating in SciQ, played daily at 11 a.m. and 2 p.m. and Wednesday at 6 p.m. at the College Exhibits Building Theatre. This year, there will be a special version of the show for children Wednesday at 4:30 p.m. Admission is free.

Erie signs pact with plastics firms

In a move designed to enhance Penn State's relationship with the plastics industry, Penn State Erie, The Behrend College, has signed an agreement with two Ohio organizations to help develop new technologies in plastics and polymers.

The Plastics Technology Deployment Center at Behrend hopes to help strengthen industrial competitiveness and economic viability in the region through its new association with Edison Polymer Innovation Corp. of Ohio and the Cleveland Advanced Manufacturing Program.

The northwest tier of Pennsylvania, as well as the northeastern section of Ohio are home to many plastics manufacturers.



Ag Progress Days

Corn and an empty field may be all you see there now, but soon the Russell E. Larson Agricultural Research Center at Rock Springs will be full of people and machinery. The College of Agricultural Sciences will hold its annual Ag Progress Days at the site Aug. 13-15.

Photo: Greg Gneor

A tractor ride-and-drive will give agricultural professionals a chance to test and compare models from different manufacturers in one location. Non-farmers are welcome to take a tractor or two on a test drive as well.

At the Pasto Agricultural Museum, visitors can examine items ranging from a vintage cream separator to a 19th-century apple peeler, and Ag

Progress Days' popular Insect Zoo in the Family and Youth Exhibits Building will feature displays on bees and such creeping attractions as large lubber grasshoppers, cockroaches and tobacco hornworms.

Penn State's Ag Progress Days features more than 500 acres of educational and commercial exhibits. The Russell E. Larson Agricultural

Research Center is located nine miles southwest of State College on Route 45. Hours are 9 a.m. to 5 p.m. Tuesday and Thursday, with extended hours on Wednesday from 9 a.m. to 8 p.m. Admission and parking are free.

For more information, call (800) PSU-1010 through Aug. 15. Or visit Ag Progress Days on the World Wide Web at <http://www.cas.psu.edu/docs/CASHOME/APD/APD.HTML>.

PENNSTATE



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